

FIGURE 1



FIGURE 2

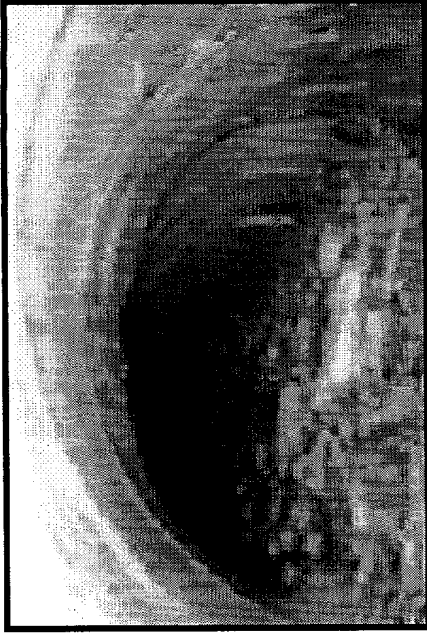


FIGURE 3

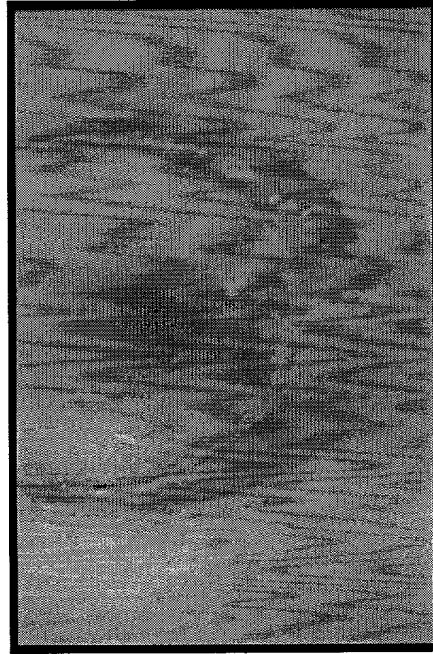


FIGURE 4

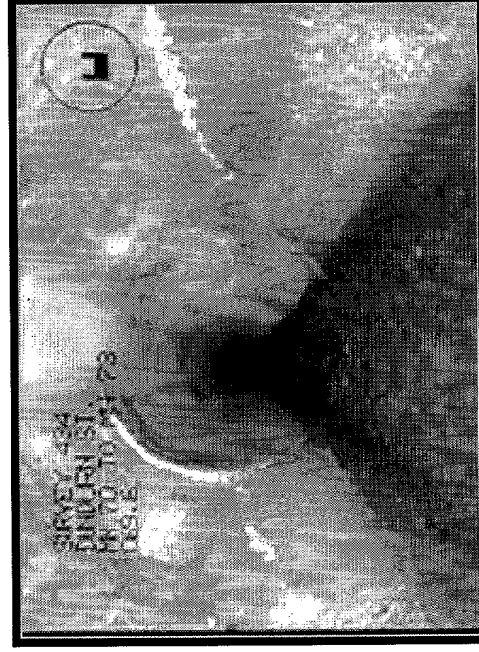


FIGURE 5



FIGURE 6

THESE ARE THE ONLY TWO CASES IN WHICH THE MOON WAS OBSERVED IN THE NIGHT SKY.

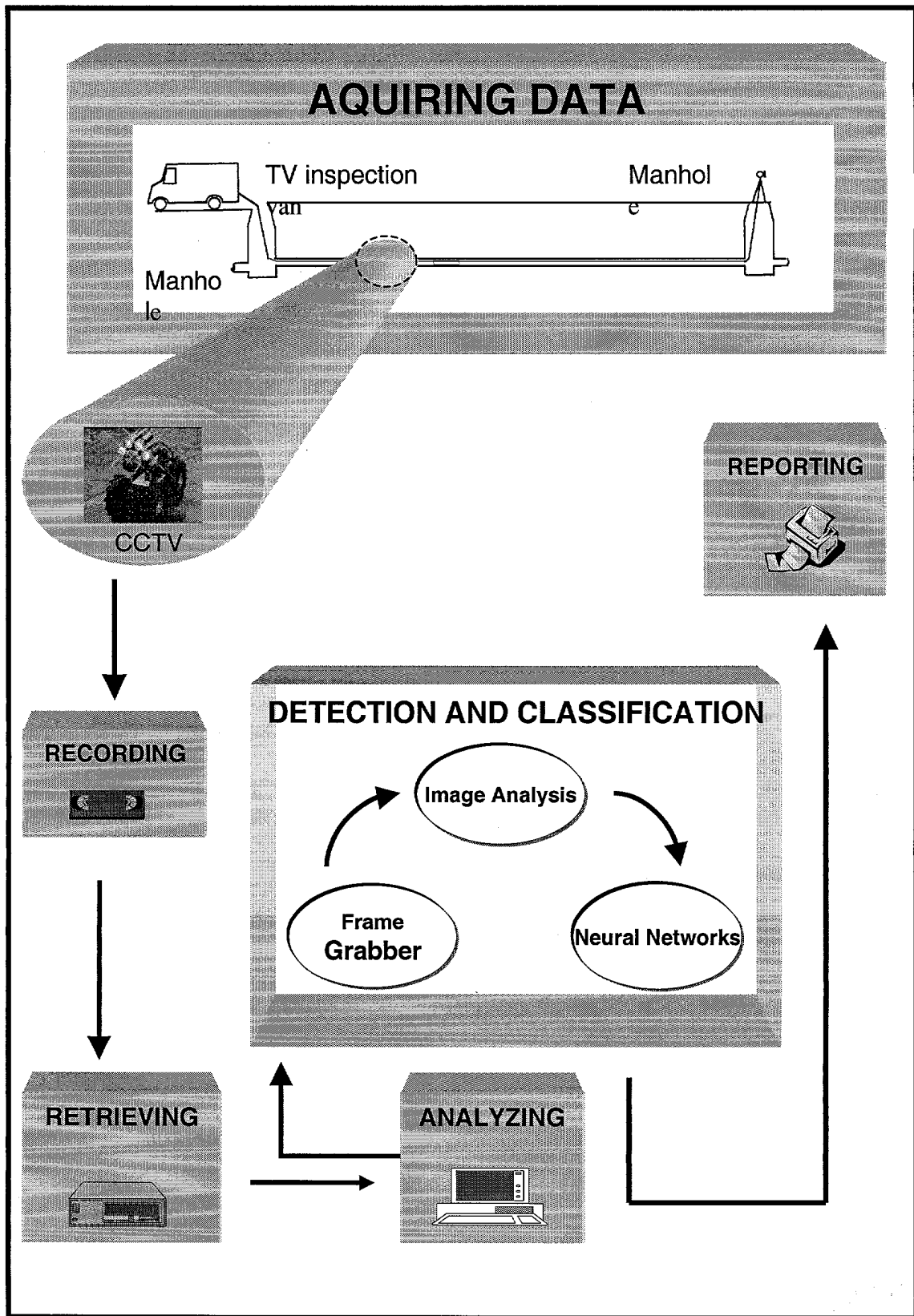


FIGURE 7

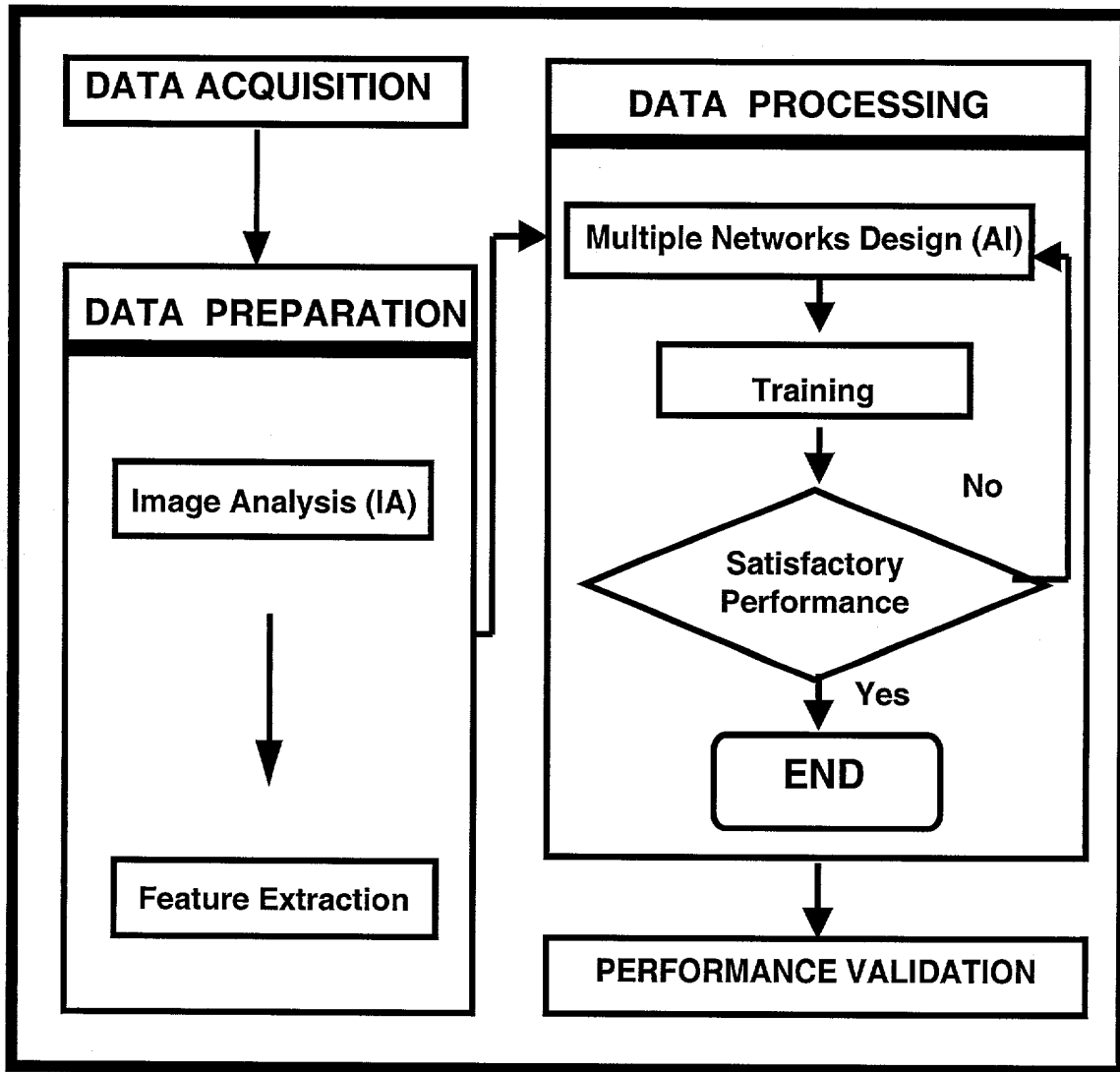


FIGURE 8

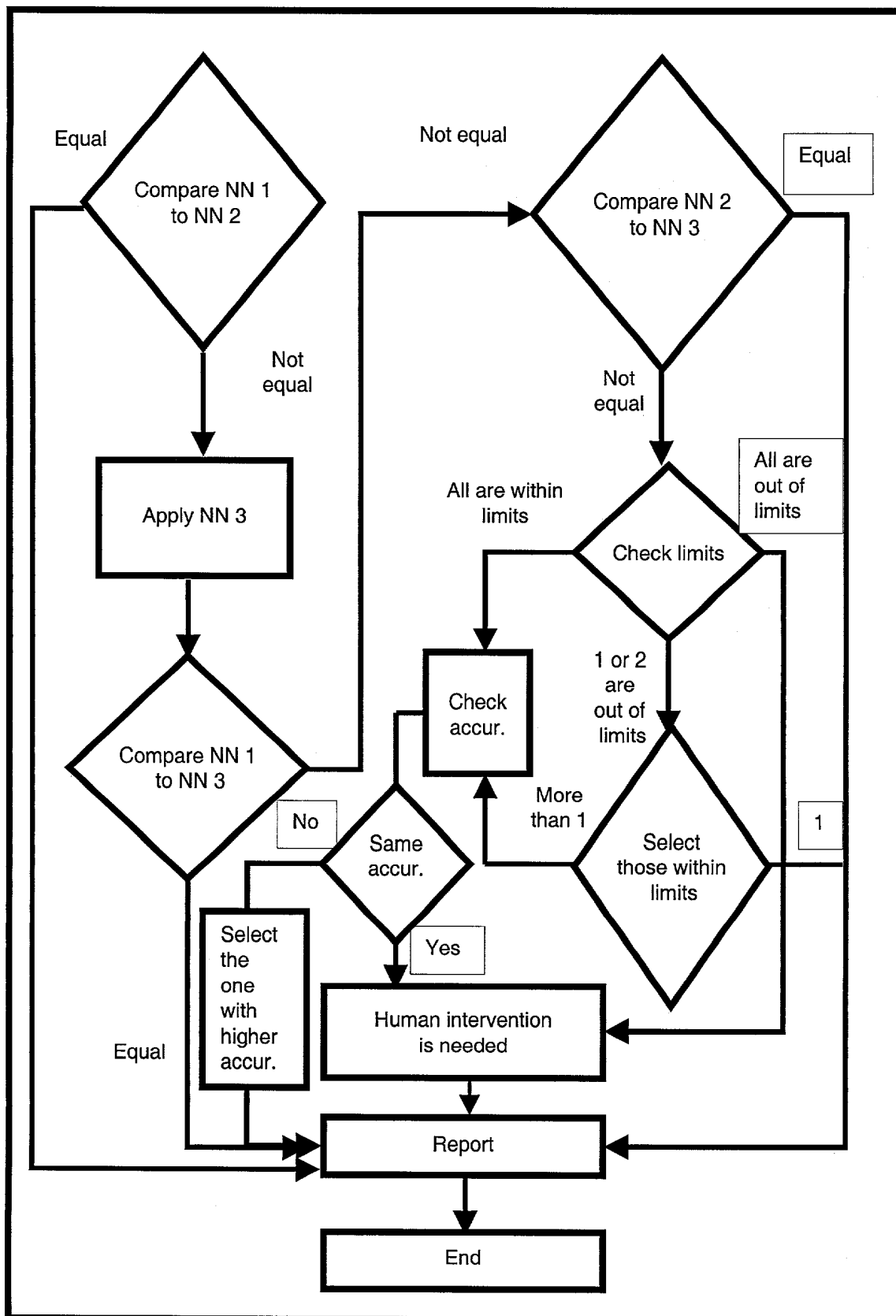


FIGURE 9

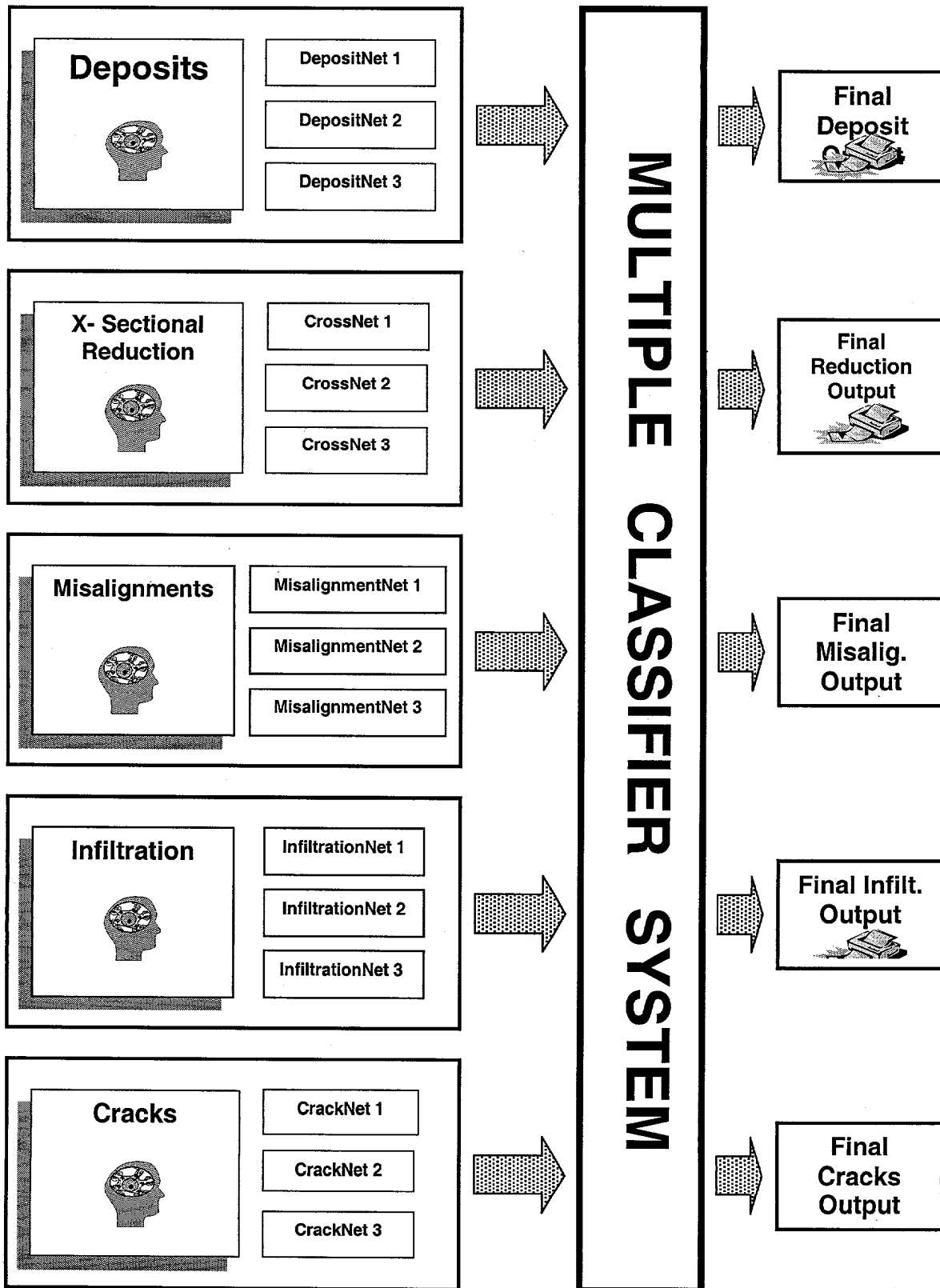


FIGURE 10

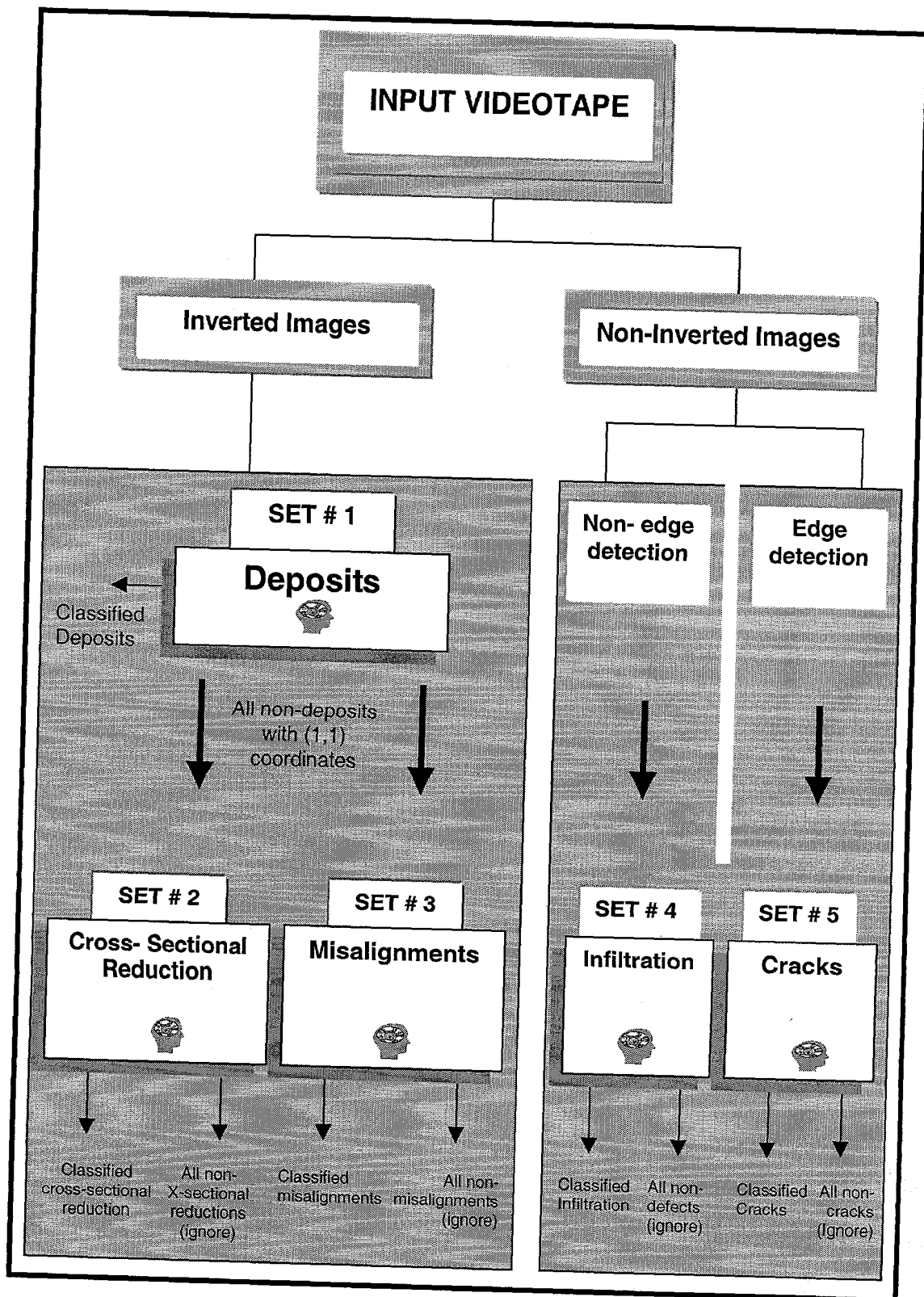


FIGURE 11

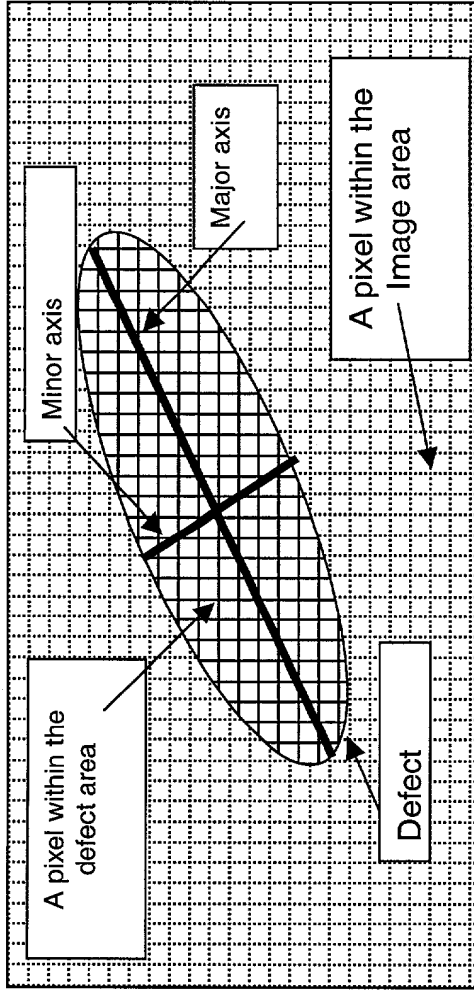


FIGURE 12

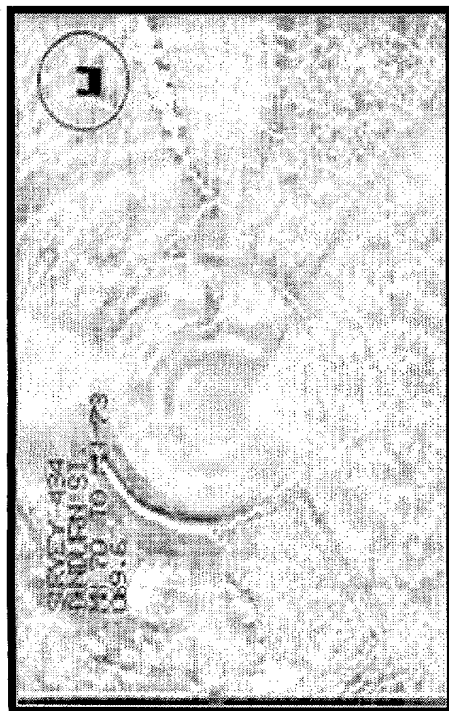
[illegible]

FIGURE 13



FIGURE 15

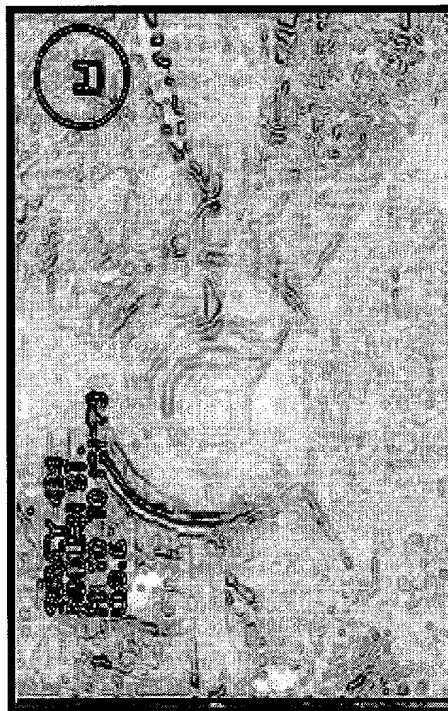


FIGURE 14



FIGURE 16

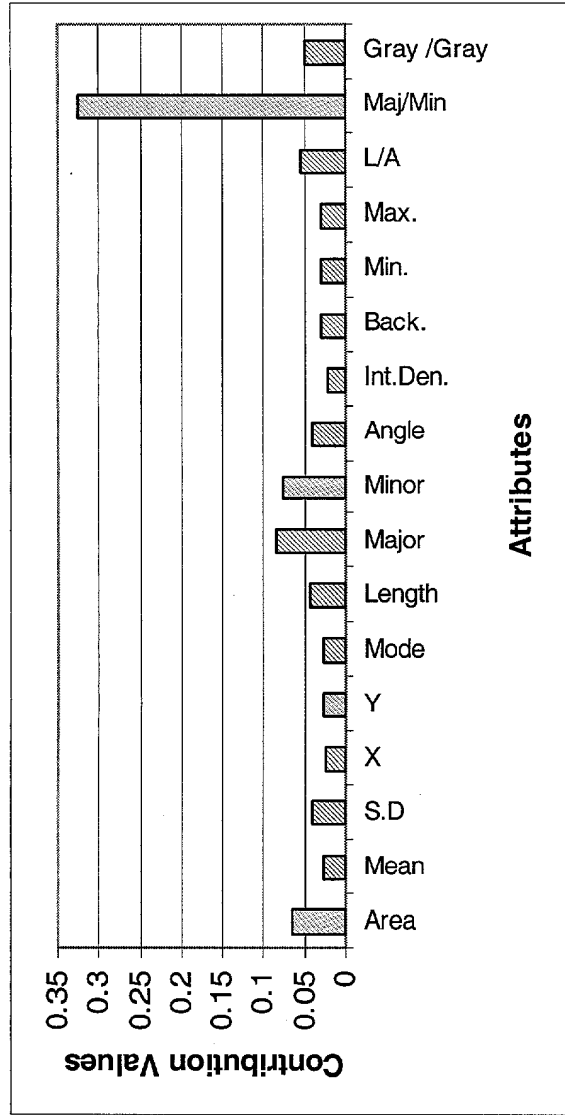


FIGURE 19

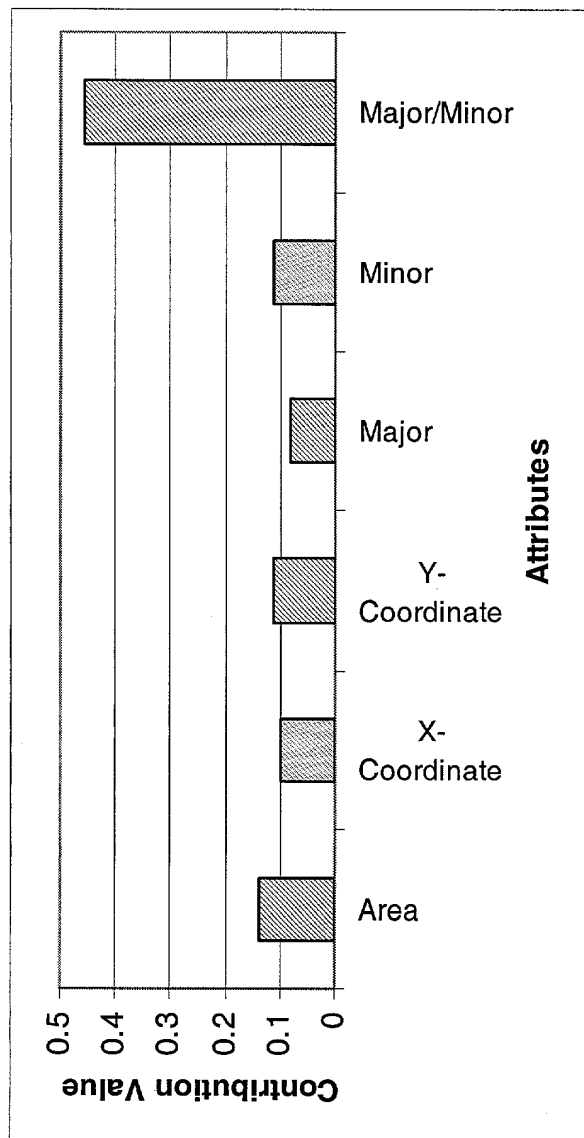


FIGURE 20

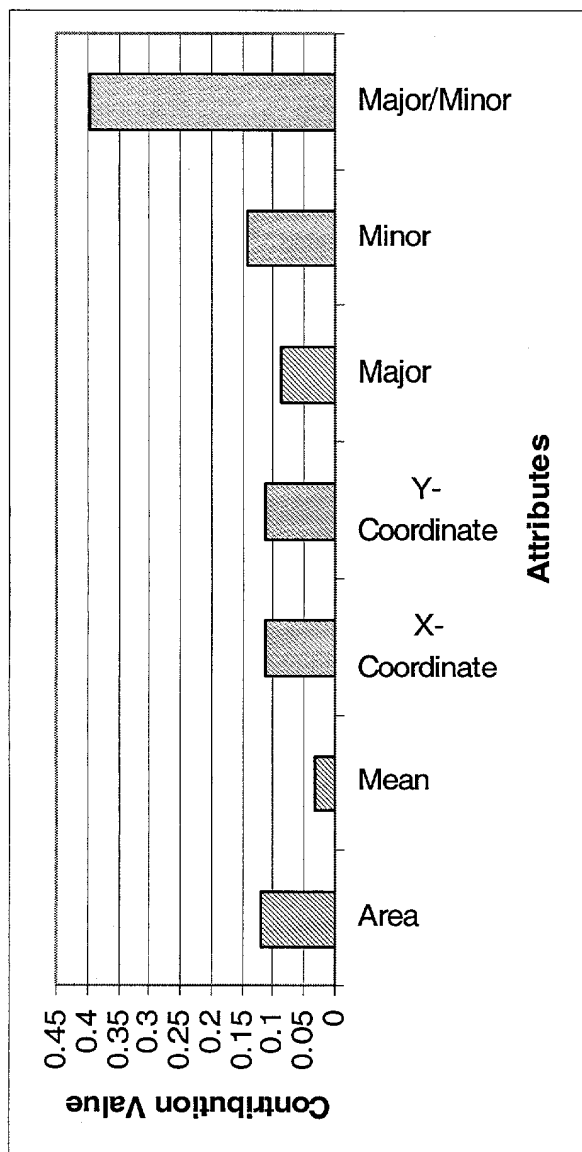


FIGURE 21

100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0%

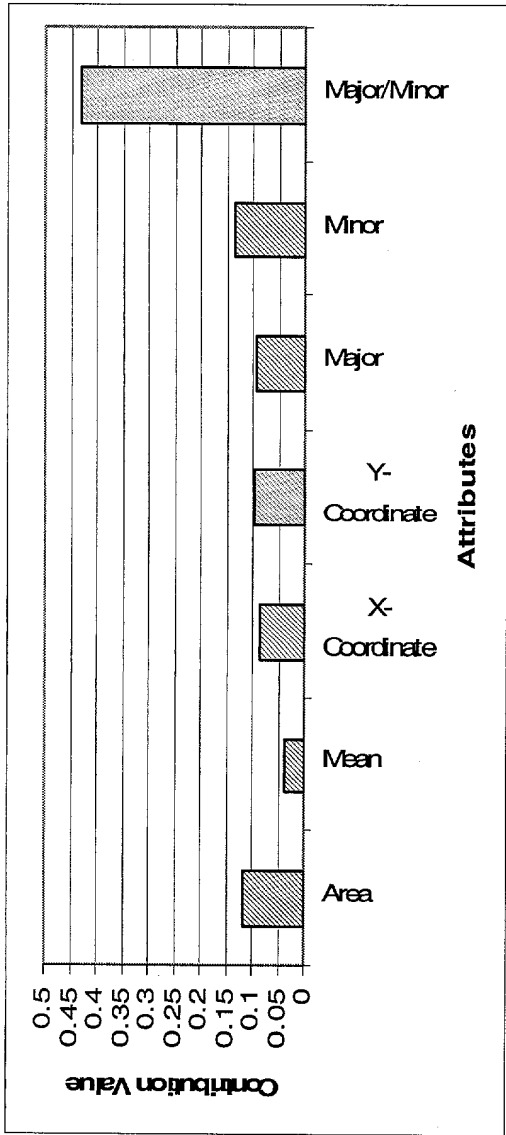


FIGURE 22



FIGURE 23

File Edit Format Help

Number of row with variable names (blank if none):

☒ left/right arrow keys end edit

First row containing actual training data:

2

Size: 100 rows 20 columns

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu allows you to change the datagrid cell to your own spreadsheet. Search help file for "datagrid" for details.

	D	E	F	G
2	0.035929877311	0.968737125397		
3	0.114000715315	0.886296689510		
4	0.000000000000	1.000000000000		
5	0.000000000000	1.000000000000		
6	0.100026234984	0.900299847126		
7	0.031811475754	0.968877077103		
8	0.000000000000	1.000000000000		
9	0.893140494823	0.104359865189		
10	0.019607180730	0.980554997921		
11	0.003982819617	0.989578843117		
12	0.005694665015	0.995122373104		
13	0.573563754559	0.428812980652		
14	0.044550366700	0.963026463985		
15	0.421342730522	0.578073859215		
16	0.706838846207	0.292702466249		
17				
18				

FIGURE 24

FILE EDIT FORMAT HELP
Number of row with variable names (blank if none):
First row containing actual training data:
Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu allows you to change the datagrid call to your own spreadsheet. Search help file for "datagrid" for details.

Number of row with variable names (blank if none): ☒ left/right arrow keys end edit

First row containing actual training data: 2 Size: 100 rows 20 columns

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu allows you to change the datagrid call to your own spreadsheet. Search help file for "datagrid" for details.

	D	E	F	G
2	-----	Else		
3	-----	Else		
4	-----	Else		
5	-----	Else		
6	-----	Else		
7	-----	Else		
8	-----	Else		
9	-----	Crack		
10	-----	Else		
11	-----	Else		
12	-----	Else		
13	-----	Crack		
14	-----	Else		
15	-----	Else		
16	-----	Crack		
17	-----			
18	-----			

FIGURE 25

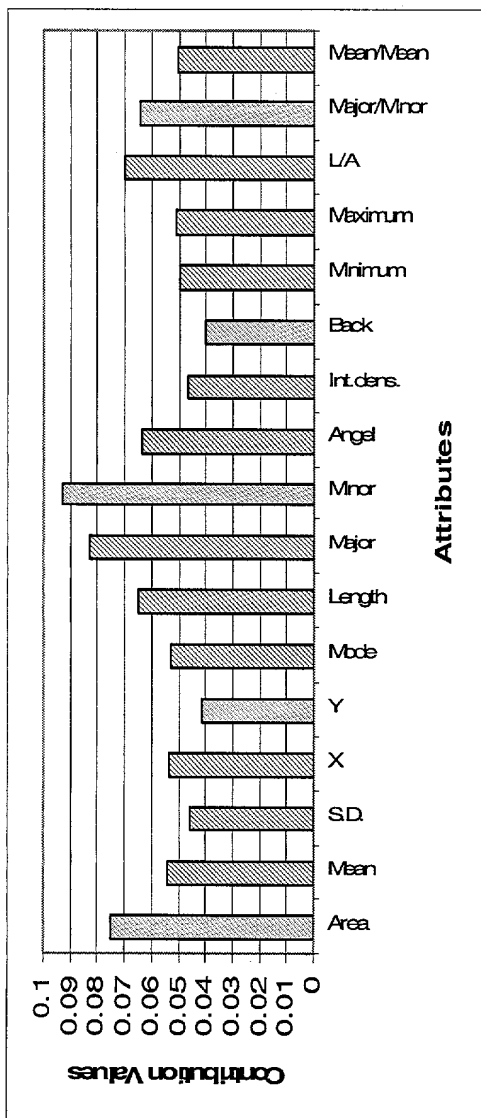


FIGURE 26

	Area	Mean	S.D.	X	Y	Length	Major
1.	2390.00	57.95	26.30	79.89	52.34	371.30	97.58
2.	3032.00	44.43	9.70	240.70	73.93	516.32	118.22
3.	492.00	55.05	34.63	318.00	81.50	332.24	185.05
4.	3609.00	49.03	13.20	159.46	56.57	343.61	87.67

FIGURE 31

NeuroShell 2.0
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File Edit Format Help

Number of row with variable names (blank if none):
First row containing actual training data: ☒ left/right arrow keys end edit
Size: 100 rows 20 columns

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu allows you to change the datagrid call to your own spreadsheet. Search help file for "datagrid" for details.

	D	E	F	G
2	Infiltration	-----		
3	Infiltration	-----		
4	-----	Else		
5	-----	Else		
6				
7				
8				
9				
10				
11				

FIGURE 32

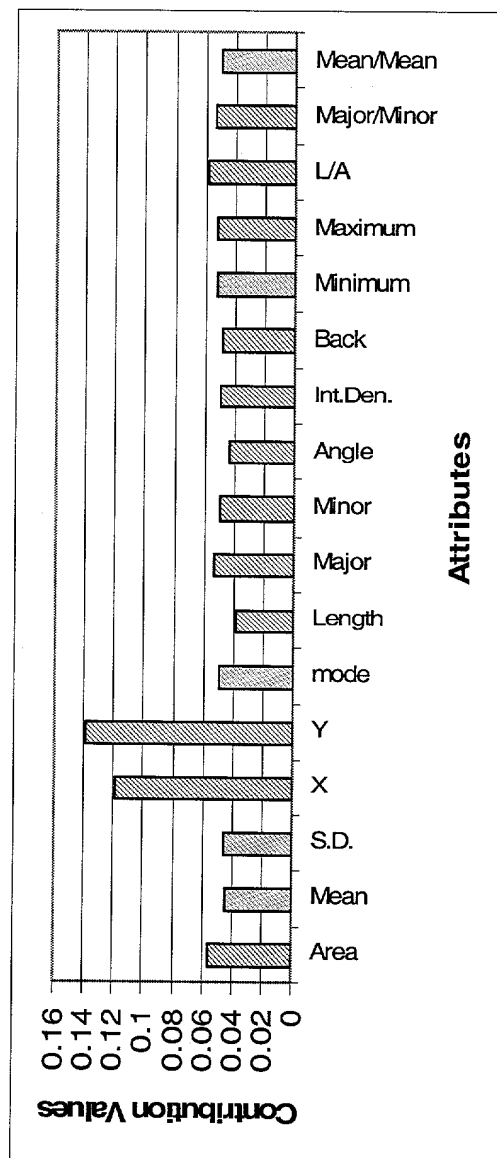


FIGURE 33



FIGURE 34

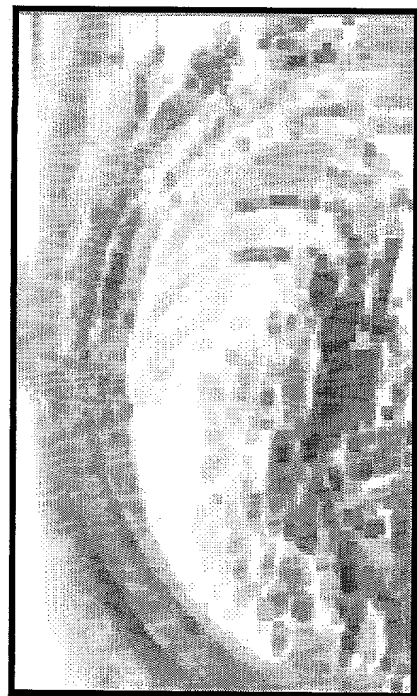


FIGURE 35

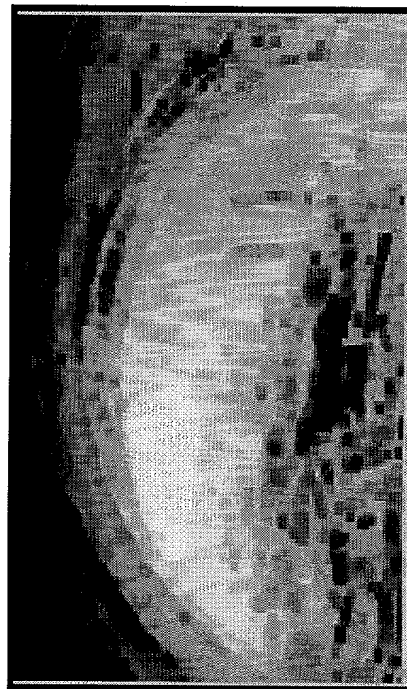


FIGURE 36



FIGURE 37

NeuroShell 2 Options menu
allows you to change the datagrid call to your own spreadsheet. Search help file for "datagrid" for details.

File Edit Format Help

Number of row with variable names (blank if none):

First row containing actual training data: Size: 100 rows 20 columns

☒ left/right arrow keys end edit

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu allows you to change the datagrid call to your own spreadsheet. Search help file for "datagrid" for details.

	D	E	F	G
2	Else	-----		
3	Else	-----		
4	Else	-----		
5	-----	Deposits		
6				
7				
8				
9				
10				
11				

FIGURE 40

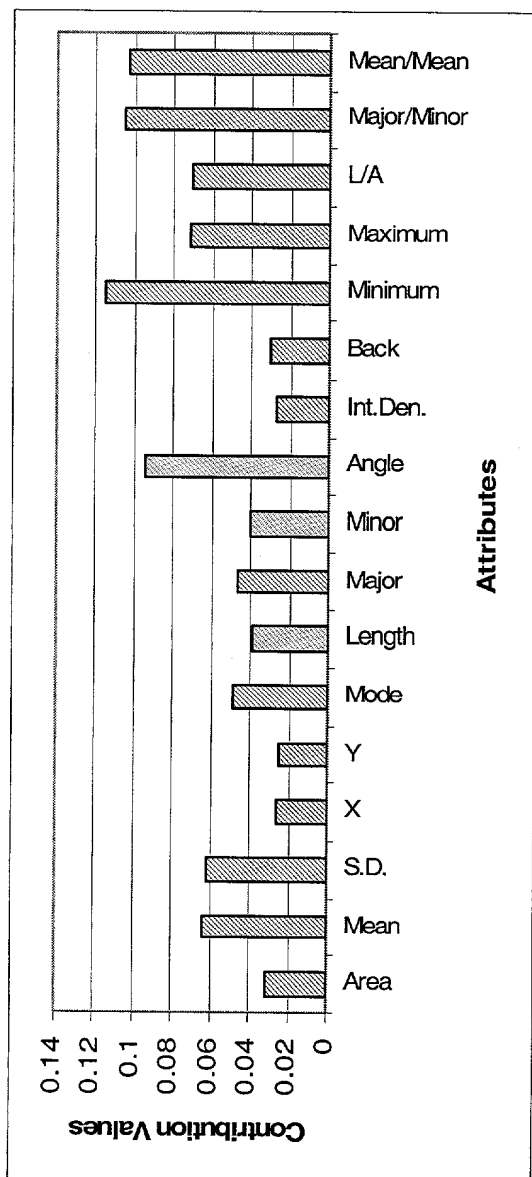


FIGURE 41

Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	



FIGURE 42



FIGURE 43

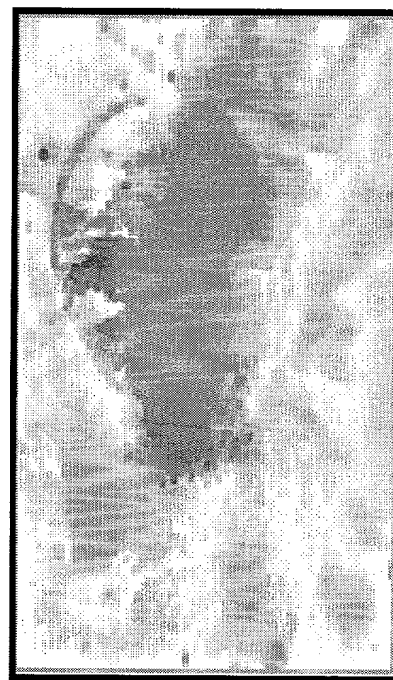


FIGURE 44



FIGURE 45

File Edit Format Help

Number of row with variable names (blank if none):

First row containing actual training data:

☒ left/right arrow keys end edit

Size: 100 rows 20 columns

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu allows you to change the datagrid call to your own spreadsheet. Search help file for "datagrid" for details.

	D	E	F	G
2	Cross-sectional reduction			
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

FIGURE 48

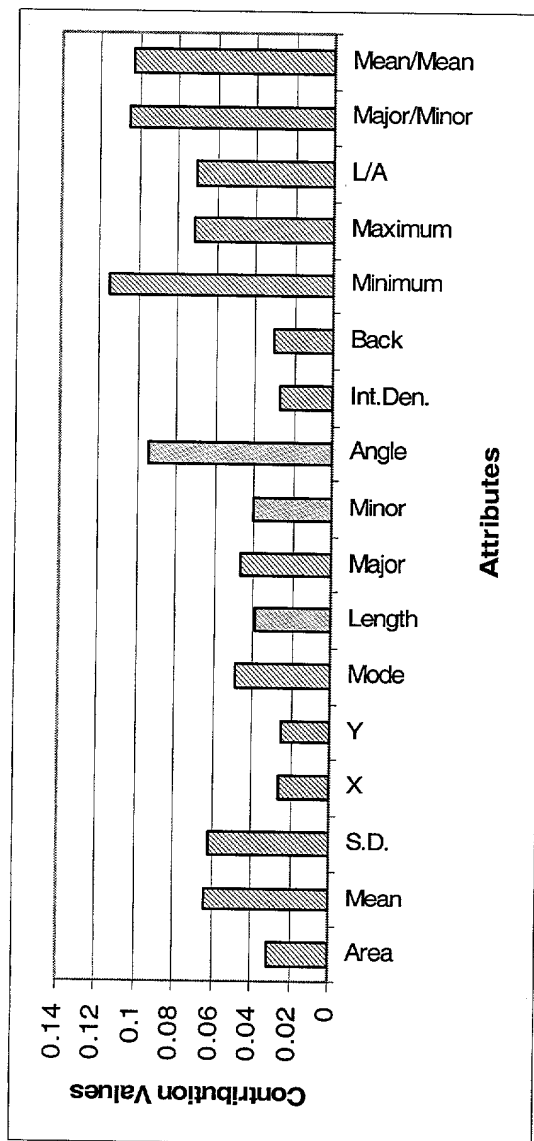


TABLE 49

THESE ARE THE RESULTS OF THE TESTS CONDUCTED AT THE
FACILITY OF THE ARMY CORPS OF ENGINEERS, WASHINGTON, D.C.
ON THE 15TH OF APRIL, 1964. THE TESTS WERE CONDUCTED
IN ORDER TO DETERMINE THE EFFECTS OF THE VIBRATIONS
PRODUCED BY THE ROTATING MACHINERY ON THE
STRUCTURE OF THE BUILDING. THE RESULTS OF THE TESTS
WERE AS FOLLOWS:

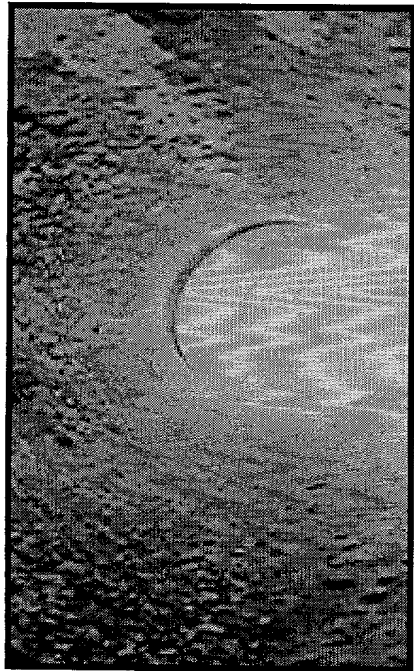


FIGURE 50

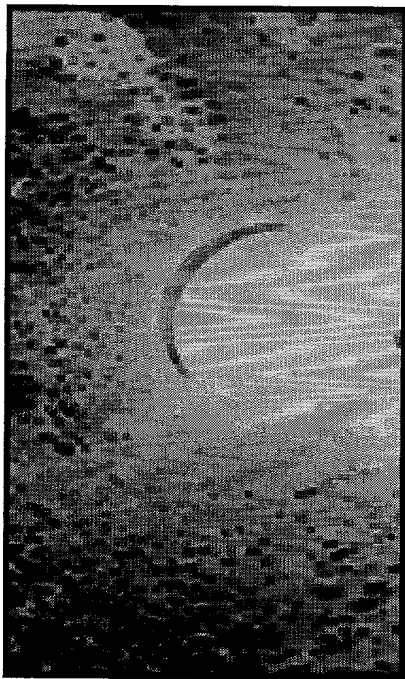


FIGURE 51

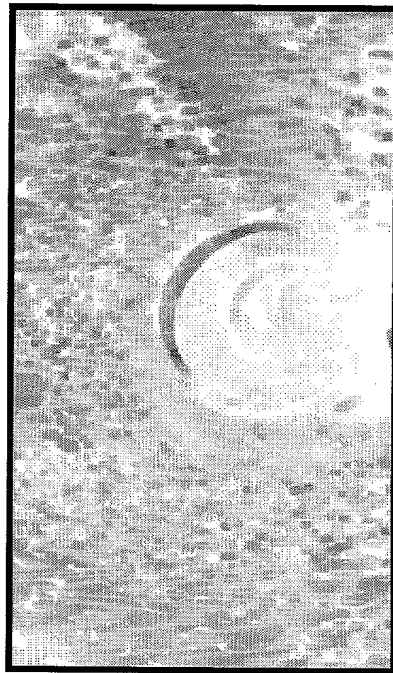


FIGURE 52



FIGURE 53

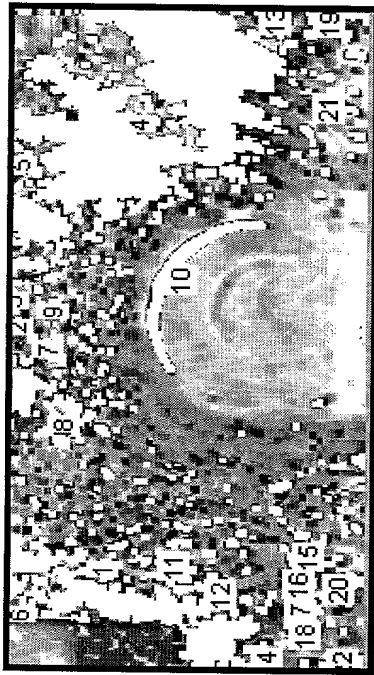


FIGURE 54

TABLE 1. Mean, standard deviation, and range of the 22 items of the 100-item test. The items are listed in the order in which they appear in the test. The items are listed in the order in which they appear in the test.

Results					
	Area	Mean	S.D.	X	Y
1.	2661.00	47.26	8.76	45.90	42.65
2.	75.00	46.45	12.18	158.67	5.32
3.	73.00	46.25	9.46	171.18	3.55
4.	6979.00	65.86	23.03	254.26	56.42
5.	151.00	50.42	10.84	234.46	6.10
6.	63.00	42.86	3.46	24.00	7.59
7.	147.00	52.41	17.64	148.17	18.16
8.	315.00	49.34	12.86	113.77	25.18
9.	77.00	45.30	10.39	166.31	20.26
10.	524.00	51.37	24.96	181.44	75.00
11.	77.00	44.99	6.90	47.45	72.77
12.	51.00	43.12	3.41	34.14	92.31
13.	96.00	61.27	22.01	303.91	113.18
14.	61.00	44.38	3.60	2.20	112.74
15.	186.00	51.23	16.59	52.42	129.34
16.	86.00	55.33	14.79	39.26	125.14
17.	82.00	43.87	5.03	25.78	126.00
18.	97.00	44.66	5.31	15.62	128.27
19.	187.00	53.84	19.02	302.75	136.37
20.	170.00	60.12	19.48	37.32	142.69
21.	59.00	60.66	30.58	262.57	136.07
22.	89.00	46.31	7.62	2.34	144.67
					55.31
					17.46

FIGURE 55

FileEditFormatHelp

Number of row with variable names (blank if none):

☒ left/right arrow keys end edit

First row containing actual training data:

2

Size: 100 rows 20 columns

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu allows you to change the datagrid call to your own spreadsheet. Search help file for "datagrid" for details.

	D	E	F	G
2	-----	Misalignment		
3				
4				
5				
6				
7				
8				
9				
10				
11				

FIGURE 56



FIGURE 57

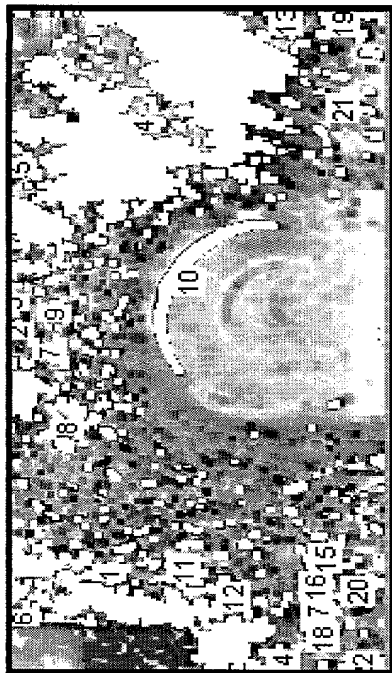


FIGURE 58

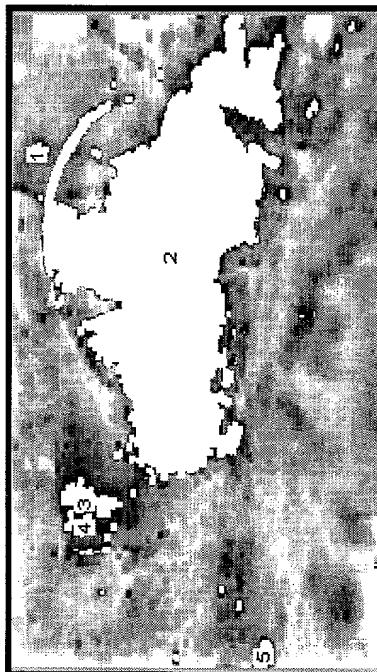


FIGURE 59

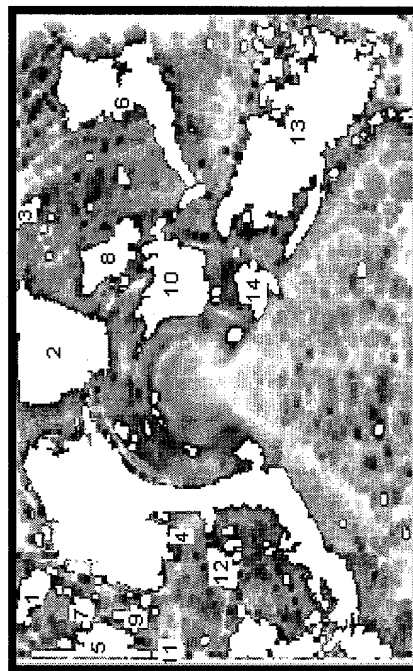


FIGURE 60

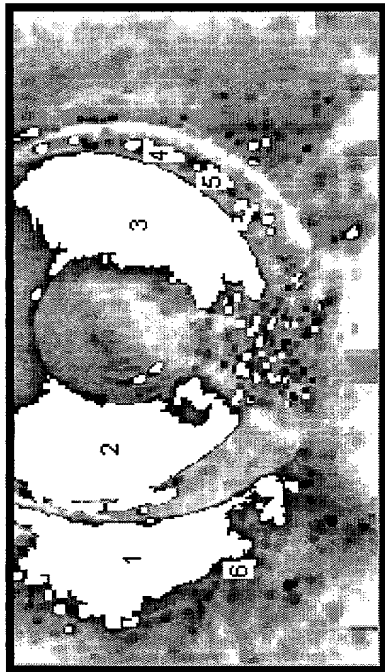


FIGURE 61

File Edit Format Help

Number of row with variable names (blank if none):

☒ left/right arrow keys end edit

First row containing actual training data:

Size: 100 rows 20 columns

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu "datagrid" for details.

	D	E	F	G
1	Else	-----		
2	Else	-----		
3	Else	-----		
4	-----	Deposits		
5				
6				
7	Else	-----		
8	Else	-----		
9	Else	-----		
10	Else	-----		
11	Else	-----		
12	Else	-----		
13	Else	-----		
14	Else	-----		
15	Else	-----		
16	Else	-----		
17	Else	-----		
18	Else	-----		
19	Else	-----		
20	Else	-----		
21	Else	-----		
22	Else	-----		
23	Else	-----		
24	Else	-----		
25	Else	-----		
26	Else	-----		
27	Else	-----		
28	Else	-----		
29				
30				

FIGURE 62A

	D	E	F	G
31	Else	-----		
32	Else	-----		
33	Else	-----		
34	Else	-----		
35	Else	-----		
36				
37				
38	Else	-----		
39	Else	-----		
40	Else	-----		
41	Else	-----		
42	Else	-----		
43	Else	-----		
44	Else	-----		
45	Else	-----		
46	Else	-----		
47	Else	-----		
48	Else	-----		
49	Else	-----		
50	Else	-----		
51	Else	-----		
52				
53				
54	Else	-----		
55	Else	-----		
56	Else	-----		
57	Else	-----		
58	Else	-----		
59	Else	-----		
60				
61				

FIGURE 62B

File Edit Format Help

Number of row with variable names (blank if none):

☒ left/right arrow keys end edit

First row containing actual training data:

Size: 100 rows 20 columns

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu "datagrid" for details.

	D	E	F	G
1	Else	-----		
2	Else	-----		
3	Else	-----		
4	-----	Deposits		
5				
6				
7	Else	-----		
8	Else	-----		
9	Else	-----		
10	Else	-----		
11	Else	-----		
12	Else	-----		
13	Else	-----		
14	Else	-----		
15	Else	-----		
16	Else	-----		
17	Else	-----		
18	Else	-----		
19	Else	-----		
20	Else	-----		
21	Else	-----		
22	Else	-----		
23	Else	-----		
24	Else	-----		
25	Else	-----		
26	Else	-----		
27	Else	-----		
28	Else	-----		
29				

FIGURE 63A

	D	E	F	G
30				
31	Else	-----		
32	Else	-----		
33	Else	-----		
34	Else	-----		
35	Else	-----		
36				
37				
38	Else	-----		
39	Else	-----		
40	Else	-----		
41	Else	-----		
42	Else	-----		
43	Else	-----		
44	Else	-----		
45	Else	-----		
46	Else	-----		
47	Else	-----		
48	Else	-----		
49	Else	-----		
50	Else	-----		
51	Else	-----		
52				
53				
54	Else	-----		
55	Else	-----		
56	Else	-----		
57	Else	-----		
58	Else	-----		
59	Else	-----		
60				

FIGURE 63B

File Edit Format Help

Number of row with variable names (blank if none):

☒ left/right arrow keys end edit

First row containing actual training data:

Size: 100 rows 20 columns

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu "datagrid" for details.

	D	E	F	G
1	Else	-----		
2	Else	-----		
3	Else	-----		
4	-----	Deposits		
5				
6				
7	Else	-----		
8	Else	-----		
9	Else	-----		
10	Else	-----		
11	Else	-----		
12	Else	-----		
13	Else	-----		
14	Else	-----		
15	Else	-----		
16	Else	-----		
17	Else	-----		
18	Else	-----		
19	Else	-----		
20	Else	-----		
21	Else	-----		
22	Else	-----		
23	Else	-----		
24	Else	-----		
25	Else	-----		
26	Else	-----		
27	Else	-----		
28	Else	-----		

FIGURE 64A

	D	E	F	G
29				
30				
31	Else	-----		
32	Else	-----		
33	Else	-----		
34	Else	-----		
35	Else	-----		
36				
37				
38	Else	-----		
39	Else	-----		
40	Else	-----		
41	Else	-----		
42	Else	-----		
43	Else	-----		
44	Else	-----		
45	Else	-----		
46	Else	-----		
47	Else	-----		
48	Else	-----		
49	Else	-----		
50	Else	-----		
51	Else	-----		
52				
53				
54	Else	-----		
55	Else	-----		
56	Else	-----		
57	Else	-----		
58	Else	-----		
59	Else	-----		

FIGURE 64B

	AA	AB	AC	AD	AE	AF	AG	AH
1					Else			
2					Else			
3					Else			
4					Deposits			
5								
6								
7					Else			
8					Else			
9					Else			
10					Else			
11					Else			
12					Else			
13					Else			
14					Else			
15					Else			
16					Else			
17					Else			
18					Else			
19					Else			
20					Else			
21					Else			
22					Else			
23					Else			
24					Else			
25					Else			
26					Else			
27					Else			
28					Else			

FIGURE 65A

	AA	AB	AC	AD	AE	AF	AG	AH
31					Else			
32					Else			
33					Else			
34					Else			
35					Else			
36								
37								
38					Else			
39					Else			
40					Else			
41					Else			
42					Else			
43					Else			
44					Else			
45					Else			
46					Else			
47					Else			
48					Else			
49					Else			
50					Else			
51					Else			
52								
53								
54					Else			
55					Else			
56					Else			
57					Else			
58					Else			
59					Else			

FIGURE 65B

File
Edit
Format
Help

Number of row with variable names (blank if none):

☒ left/right arrow keys end edit

First row containing actual training data:

Size: 100 rows 20 columns

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu allows you to change the datagrid call to your own spreadsheet. Search help file for "datagrid" for details.

	D	E	F	G
1	Cross-sectional reduction	-----		
2				
3				
4	Cross-sectional reduction	-----		
5				
6				
7				
8				
9				
10				

FIGURE 66

File

Edit

Format

Help

Number of row with variable names (blank if none):

☒ left/right arrow keys end edit

Size: 100 rows 20 columns

First row containing actual training data:

1

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu allows you to change the datagrid call to your own spreadsheet. Search help file for "datagrid" for details.

	D	E	F	G
1	-----	Else		
2				
3				
4	Cross-sectional reduction	-----		
5				
6				
7				
8				
9				
10				

FIGURE 67

File Edit Format Help

Number of row with variable names (blank if none): ☒ left/right arrow keys end edit

First row containing actual training data: Size: 100 rows 20 columns

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu allows you to change the datagrid call to your own spreadsheet. Search help file for "datagrid" for details.

	D	E	F	G
1	-----	Else		
2				
3				
4	Cross-sectional reductions	-----		
5				
6				
7				
8				
9				
10				

FIGURE 68

Small text or header information at the top of the page.

	AC	AD	AE	AF	AG	AJ	AK	AL	AM
1	equal								Else
2									
3									
4	Cross-sectional reductions								
5									
6									
7									
8									
9									
10									

FIGURE 69

File Edit Format Help

Number of row with variable names (blank if none): ☒ left/right arrow keys end edit

First row containing actual training data: Size: 100 rows 20 columns

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu allows you to change the datagrid call to your own spreadsheet. Search help file for "datagrid" for details.

	D	E	F	G
1	-----	Misalignment		
2				
3				
4	Else	-----		
5				
6				
7				
8				
9				
10				

FIGURE 70

File Edit Format Help

Number of row with variable names (blank if none): ☒ left/right arrow keys end edit

First row containing actual training data: Size: 100 rows 20 columns

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu allows you to change the datagrid call to your own spreadsheet. Search help file for "datagrid" for details.

	D	E	F	G
1	-----	Misalignment		
2				
3				
4	Else	-----		
5				
6				
7				
8				
9				
10				
11				

FIGURE 71

File Edit Format Help

Number of row with variable names (blank if none): ☒ left/right arrow keys end edit

First row containing actual training data: Size: 100 rows 20 columns

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu allows you to change the datagrid call to your own spreadsheet. Search help file for "datagrid" for details.

	D	E	F	G
1	-----	Misalignment		
2				
3				
4	-----	-----		
5				
6				
7				
8				
9				
10				

FIGURE 72

	AA	AB	AC	AD	AE	AF	AG
1					Misalignment		
2							
3							
4				equal	Else		
5							
6							
7							
8							
9							
10							

FIGURE 73

From this point it is possible to see the entire area of the site and the surrounding area. The view is from the top of the hill and looking down towards the river. The river is visible in the foreground and the hills are visible in the background. The area is very scenic and the view is very good.

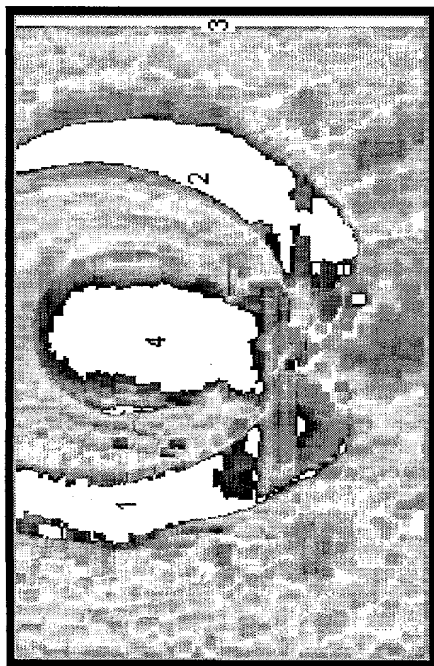


FIGURE 78

File Edit Format Help

Number of row with variable names (blank if none): ☒ left/right arrow keys end edit

First row containing actual training data: Size: 100 rows 20 columns

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu "datagrid" for details.

	D	E	F	G
1	-----	Else		
2	-----	Else		
3	-----	Else		
4	-----	Else		
5	-----	Else		
6	-----	Else		
7				
8				
9	-----	Else		
10	-----	Else		
11	-----	Else		
12	-----	Else		
13	-----	Else		
14	-----	Else		
15	-----	Else		
16				
17				

FIGURE 79A

	D	E	F	G
18	-----	Else		
19	-----	Else		
20	-----	Else		
21	-----	Else		
22	Infiltration	-----		
23	-----	Else		
24	-----	Else		
25				
26				
27	-----	Else		
28	-----	Else		
29	-----	Else		
30				
31				
32	Infiltration	-----		
33	Infiltration	-----		
34	-----	Else		
35	-----	Else		
36				

FIGURE 79B

File Edit Format Help

Number of row with variable names (blank if none): ☒ left/right arrow keys end edit

First row containing actual training data: Size: 100 rows 20 columns

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu "datagrid" for details.

	D	E	F	G
1	-----	Else		
2	-----	Else		
3	-----	Else		
4	Infiltration	-----		
5	-----	Else		
6	-----	Else		
7				
8				
9	-----	Else		
10	-----	Else		
11	-----	Else		
12	-----	Else		
13	-----	Else		
14	-----	Else		
15	-----	Else		
16				

FIGURE 80A

	D	E	F	G
17				
18	-----	Else		
19	-----	Else		
20	-----	Else		
21	-----	Else		
22	-----	Else		
23	-----	Else		
24	-----	Else		
25				
26				
27	-----	Else		
28	Infiltration	-----		
29	-----	Else		
30				
31				
32	Infiltration	-----		
33	Infiltration	-----		
34	-----	Else		
35	-----	Else		
36				
37				

FIGURE 80B

File

Edit

Format

Help

Number of row with variable names (blank if none):

☒ left/right arrow keys end edit

First row containing actual training data:

1

Size: 100 rows 20 columns

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu "datagrid" for details.

	D	E	F	G
1	Infiltration	-----		
2	-----	Else		
3	-----	Else		
4	-----	Else		
5	-----	Else		
6	-----	Else		
7				
8				
9	-----	Else		
10	-----	Else		
11	-----	Else		
12	-----	Else		
13	-----	Else		
14	-----	Else		
15	-----	Else		
16				
17				

FIGURE 81A

	D	E	F	G
18	-----	Else		
19	-----	Else		
20	-----	Else		
21	-----	Else		
22	-----	Else		
23	-----	Else		
24	-----	Else		
25				
26				
27	-----	Else		
28	-----	Else		
29	-----	Else		
30				
31				
32	Infiltration	-----		
33	Infiltration	-----		
34	-----	Else		
35	-----	Else		
36				
37				
38				

FIGURE 81B

	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL
1			Else							
2			Else							
3			Else							
4		equal				Else				
5			Else							
6			Else							
7										
8										
9			Else							
10			Else							
11			Else							
12			Else							
13			Else							
14			Else							
15			Else							
16										
17										

FIGURE 82A

	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL
18			Else							
19			Else							
20			Else							
21			Else							
22		equal								Else
23			Else							
24			Else							
25										
26										
27			Else							
28		equal				Else				
29			Else							
30										
31										
32			Infiltration							
33			Infiltration							
34			Else							
35			Else							
36										

FIGURE 82B



FIGURE 83

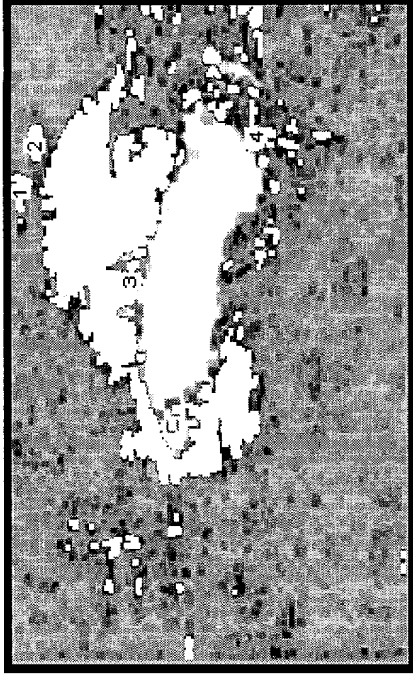


FIGURE 84



FIGURE 85



FIGURE 87

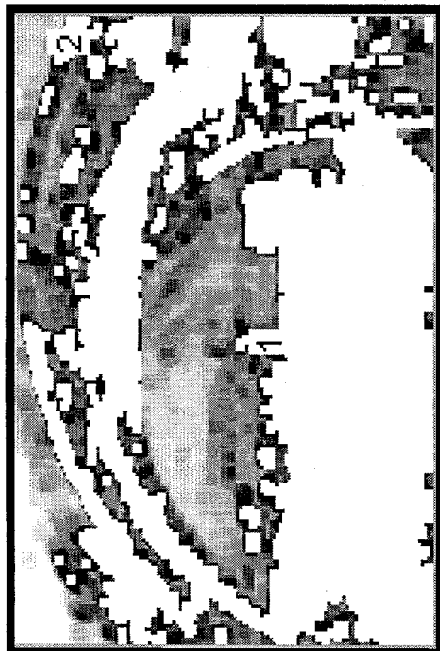


FIGURE 86

File Edit Format Help

Number of row with variable names (blank if none):

☒ left/right arrow keys end edit

First row containing actual training data:

Size: 100 rows 20 columns

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu "datagrid" for details.

	D	E	F	G
1	-----	Else		
2	-----	Else		
3	-----	Else		
4	-----	Else		
5	-----	Else		
6	-----	Else		
7	-----	Else		
8	Crack	-----		
9	-----	Else		
10	-----	Else		
11	-----	Else		
12	Crack	-----		
13	-----	Else		
14	-----	Else		
15	-----	Else		
16				
17				
18	-----	Else		
19	-----	Else		
20	-----	Else		
21	-----	Else		
22				

FIGURE 88A

	D	E	F	G
23				
24	-----	Else		
25	-----	Else		
26				
27				
28	Crack	-----		
29	-----	Else		
30				
31				
32	-----	Else		
33	Crack	-----		
34	-----	Else		
35	-----	Else		
36	-----	Else		
37	-----	Else		
38	-----	Else		
39	-----	Else		
40	-----	Else		
41				
42				
43				

FIGURE 88B

File Edit Format Help

Number of row with variable names (blank if none):

☒ left/right arrow keys end edit

First row containing actual training data:

Size: 100 rows 20 columns

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu "datagrid" for details.

	D	E	F	G
1	-----	Else		
2	-----	Else		
3	-----	Else		
4	-----	Else		
5	-----	Else		
6	-----	Else		
7	-----	Else		
8	Crack	-----		
9	-----	Else		
10	-----	Else		
11	-----	Else		
12	Crack	-----		
13	-----	Else		
14	-----	Else		
15	Crack	-----		
16				
17				
18	-----	Else		
19	-----	Else		
20	-----	Else		
21	-----	Else		
22				
23				

FIGURE 89A

	D	E	F	G
24	Crack	-----		
25	-----	Else		
26	-----			
27	-----			
28	-----	Else		
29	-----	Else		
30	-----			
31	-----			
32	-----	Else		
33	Crack	-----		
34	-----	Else		
35	-----	Else		
36	-----	Else		
37	-----	Else		
38	-----	Else		
39	-----	Else		
40	-----	Else		
41	-----			
42	-----			

FIGURE 89B

File Edit Format Help

Number of row with variable names (blank if none):

☒ left/right arrow keys end edit

First row containing actual training data:

Size: 100 rows 20 columns

Note: This is not a commercial spreadsheet and may not load fast enough for large files. The NeuroShell 2 Options menu "datagrid" for details.

	D	E	F	G
1	-----	Else		
2	-----	Else		
3	-----	Else		
4	-----	Else		
5	-----	Else		
6	-----	Else		
7	-----	Else		
8	Crack	-----		
9	-----	Else		
10	-----	Else		
11	-----	Else		
12	Crack	-----		
13	-----	Else		
14	-----	Else		
15	Crack	-----		
16				
17				
18	-----	Else		
19	-----	Else		
20	-----	Else		
21	-----	Else		

FIGURE 90A

	D	E	F	G
22				
23				
24	-----	Else		
25	-----	Else		
26				
27				
28	-----	Else		
29	-----	Else		
30				
31				
32	-----	Else		
33	Crack	-----		
34	-----	Else		
35	-----	Else		
36	-----	Else		
37	-----	Else		
38	-----	Else		
39	-----	Else		
40	-----	Else		
41				
42				

FIGURE 90B

	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL
1				Else							
2				Else							
3				Else							
4				Else							
5				Else							
6				Else							
7				Else							
8				Crack							
9				Else							
10				Else							
11				Else							
12				Crack							
13				Else							
14				Else							
15		equal								Crack	
16											
17											
18				Else							
19				Else							
20				Else							
21				Else							
22											

FIGURE 91A

	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL
23											
24			equal				Else				
25				Else							
26											
27											
28			equal								Else
29				Else							
30											
31											
32				Else							
33				Crack							
34				Else							
35				Else							
36				Else							
37				Else							
38				Else							
39				Else							
40				Else							
41											

FIGURE 91B

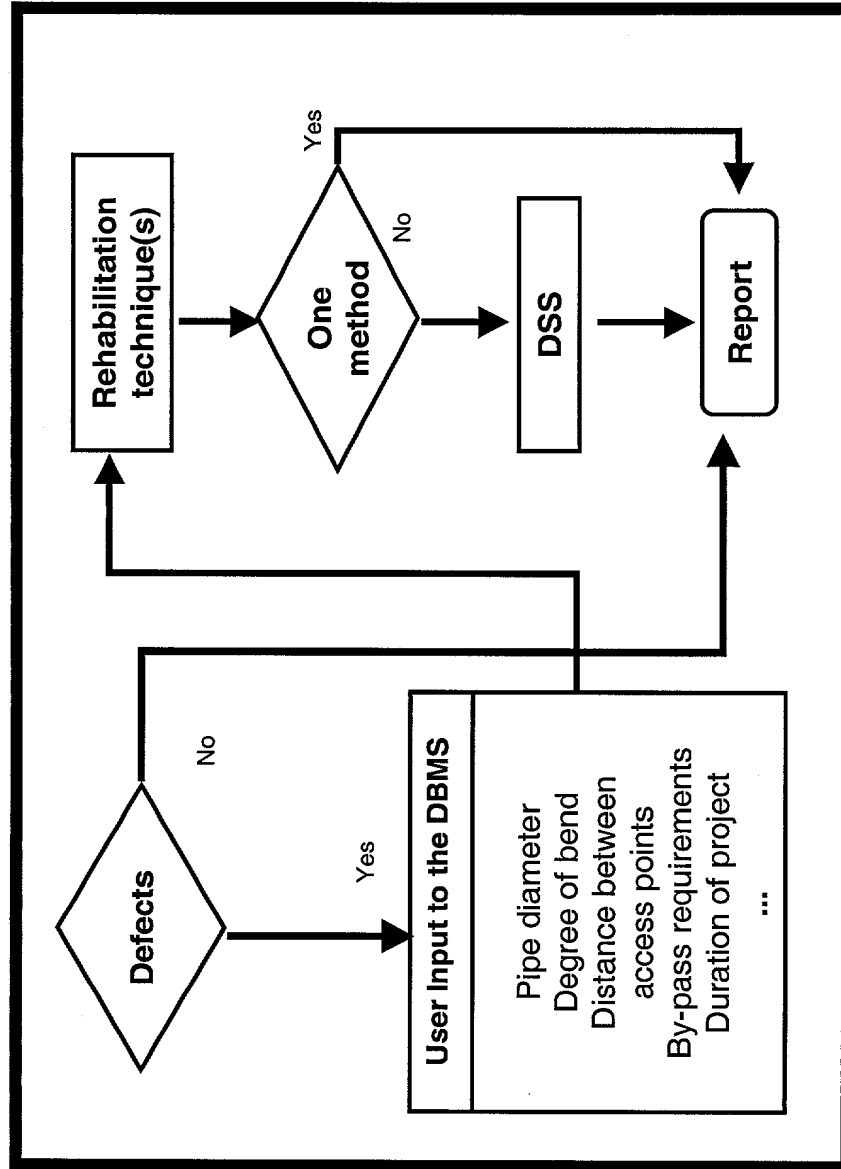


FIGURE 92

products : Table		
Field Name	Data Type	Description
ProductID	AutoNumber	Database serial number
Method of repair	Text	Commercial name of rehabilitation technique
Maximum distance between access points	Number	Maximum allowable distance between access points to the host pipe
Maximum degree of bends	Number	Maximum degree of bends of the host pipe
Average cost	Number	Cost of product
Average duration	Number	Duration to install 500 (m) of pipe in weeks
Number of years in business	Number	Years in business of supplier
Life expectancy	Number	Design life of new pipe
Local experience	Text	Does the supplier have an Office in Canada
Access type	Text	Type of access required to the host pipe
Length of product installed	Number	Number of KM of product installed by the supplier
Innovation	Number	Ability of supplier to accommodate none standard designs
Coordinates	Number	Phone number

General

Lookup

Field Size

New Values

Format

Caption

Indexed

Long Integer

Increment

Product ID

Yes (No Duplicates)

Field Properties

A field name can be up to 64 characters long, including spaces.
Press F1 for help on field names.

FIGURE 93

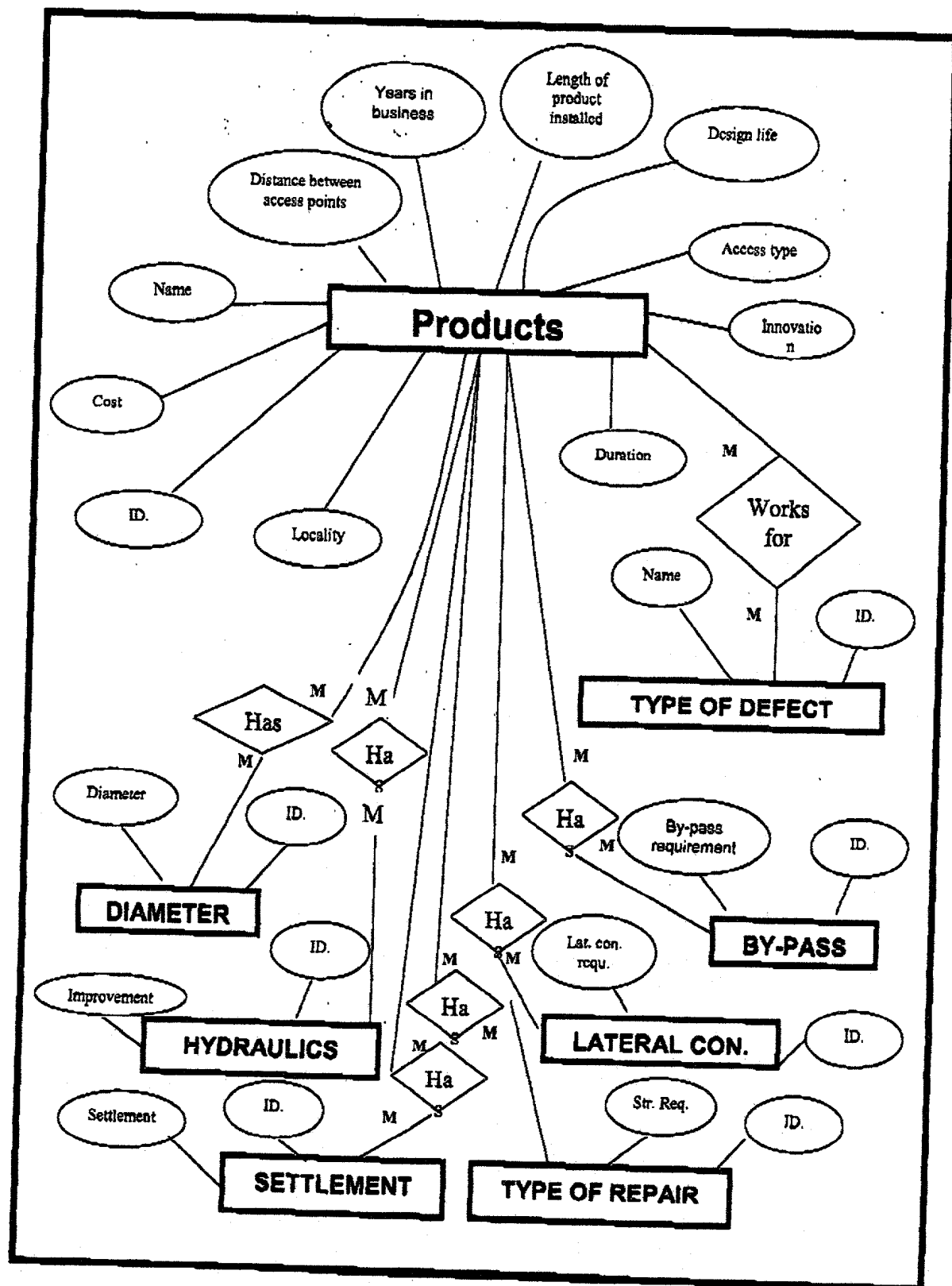


FIGURE 94

Product ID	Defect ID
Method of repair	Defect name
Maximum distance between access points	Settlement ID
Maximum degree of bends	Accommodate future settlement
Average cost	Service connection ID
Average duration	Service Connection
Number of years in business	By-pass ID
Life expectancy	By-pass requirements
Local experience	Manometer ID
Access type	Diameter
Length of product installed	Structural ID
Innovation	Structural requirement
	Hydraulics ID
	Hydraulics

FIGURE 95

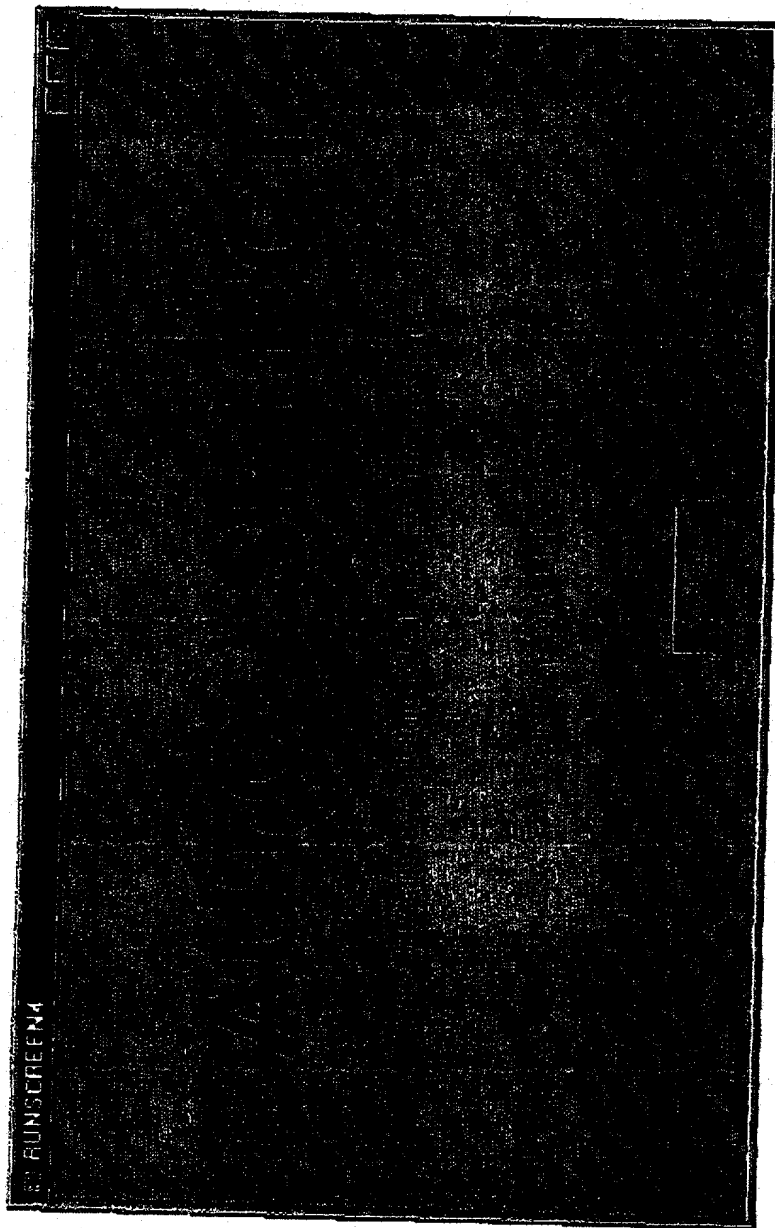


FIGURE 96

select7: Filter by Form

Diameter: (in/cm)

Defect name

Structural requirement (structural/non-structural)

Average end (\$/cm of diameter/in of length)

Maximum degree of bends (Degrees)

Access type (manhole/manhole/excavator)

Maximum distance between access points (m)

Hydraulic (improved/not improved)

by-pass requirements (yes/no)

Average duration (weeks)

Number of years in business (years)

Length of project installed (km)

Life experience (years)

Local experience (yes/no)

Accomodate future settlement (yes/no)

Innovation (1-5)

Service Connection (exc. is required/not required)

Look for

97

RESULTS

Non-structural structural

Method of repair

Coordinates

FIGURE 97

UserForm20

Which attributes do you want to consider in your analysis

<input type="checkbox"/> Cost	<input type="checkbox"/> Years in business
<input type="checkbox"/> Duration	<input type="checkbox"/> Length of product installed
<input type="checkbox"/> Life expectancy	<input type="checkbox"/> Innovation

Next

FIGURE 98

UserForm22

What, in your opinion, is the most acceptable cost of project... ?
(i.e. 100 % satisfaction)

Add

Next

FIGURE 99

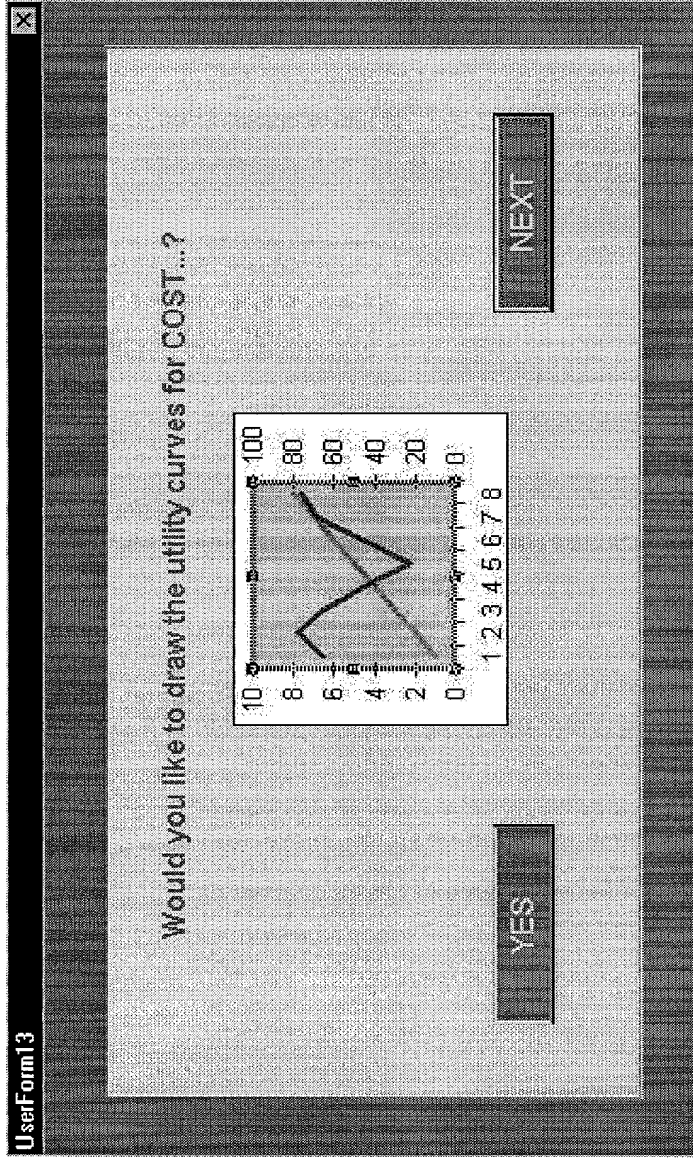


FIGURE 100

UserForm2

WHICH FUNCTION DID YOU SELECT

☒ Linear

☐ Logarithmic

☐ Exponential

☐ Power

☐ Polynomial (second degree)

☐ Polynomial (Third degree)

UP

Next

Down

FIGURE 101

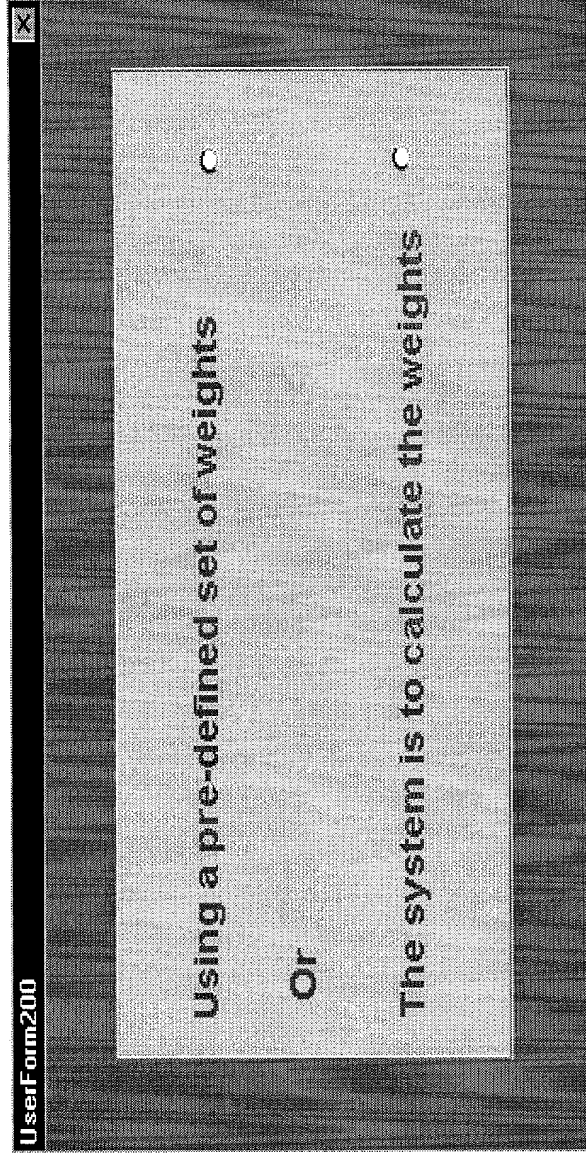


FIGURE 102

UserForm201

Cost	<input type="text"/>	Years in business	<input type="text"/>
Duration	<input type="text"/>	Length of product installed	<input type="text"/>
Life expectancy	<input type="text"/>	Innovation	<input type="text"/>

Retrive file Load pre-calculated weights Enter pre-defined weights Next

FIGURE 103

that you can use to find out more about the product and the company that makes it.

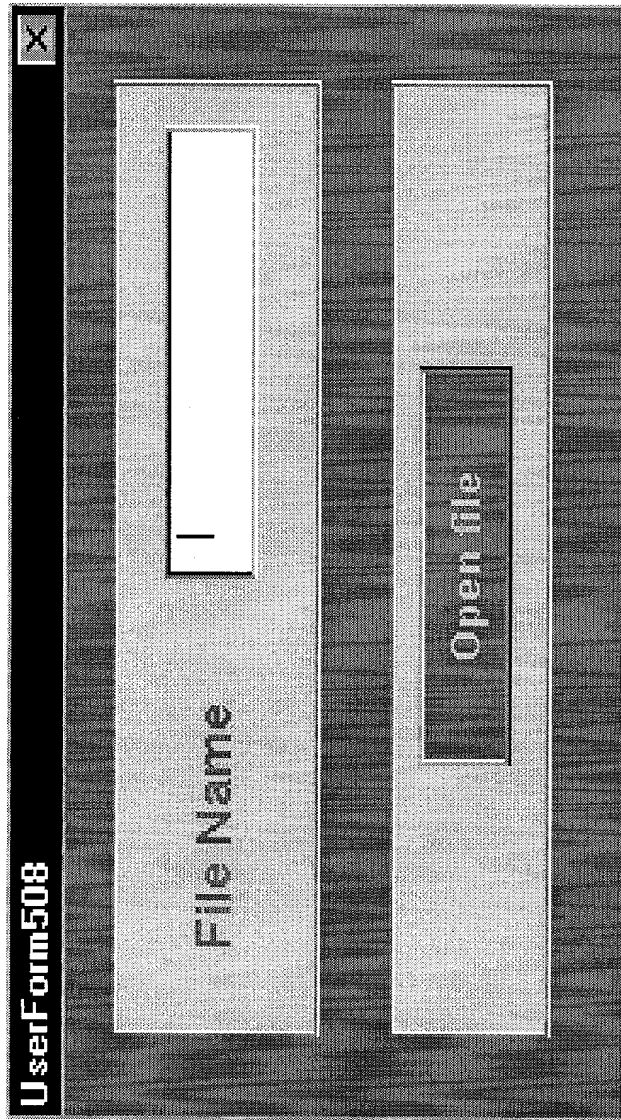


FIGURE 104

Next

FIGURE 105

Alternative #4

Downloaded At: 11:53 11 September 2009

FIGURE 107

that they are not in the same class as the other two. The first two are in the same class as the other two. The first two are in the same class as the other two.

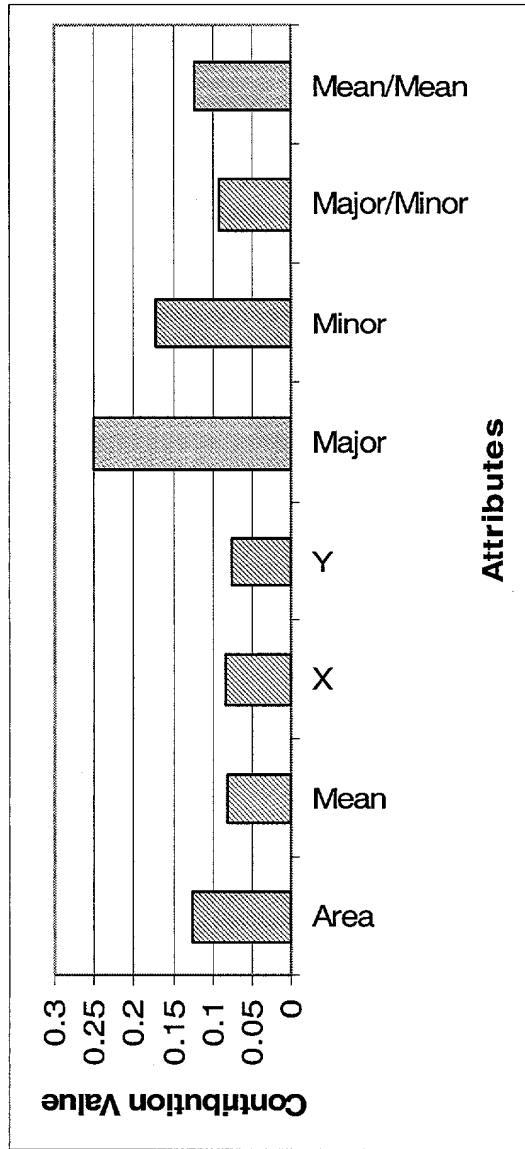


FIGURE 108

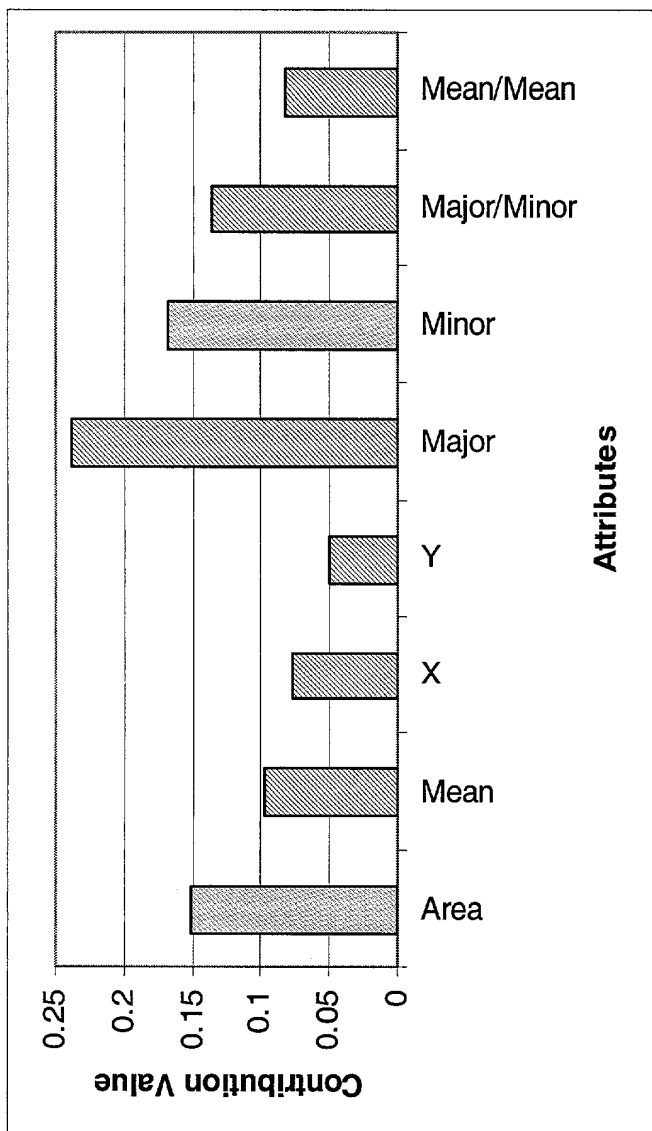


FIGURE 109

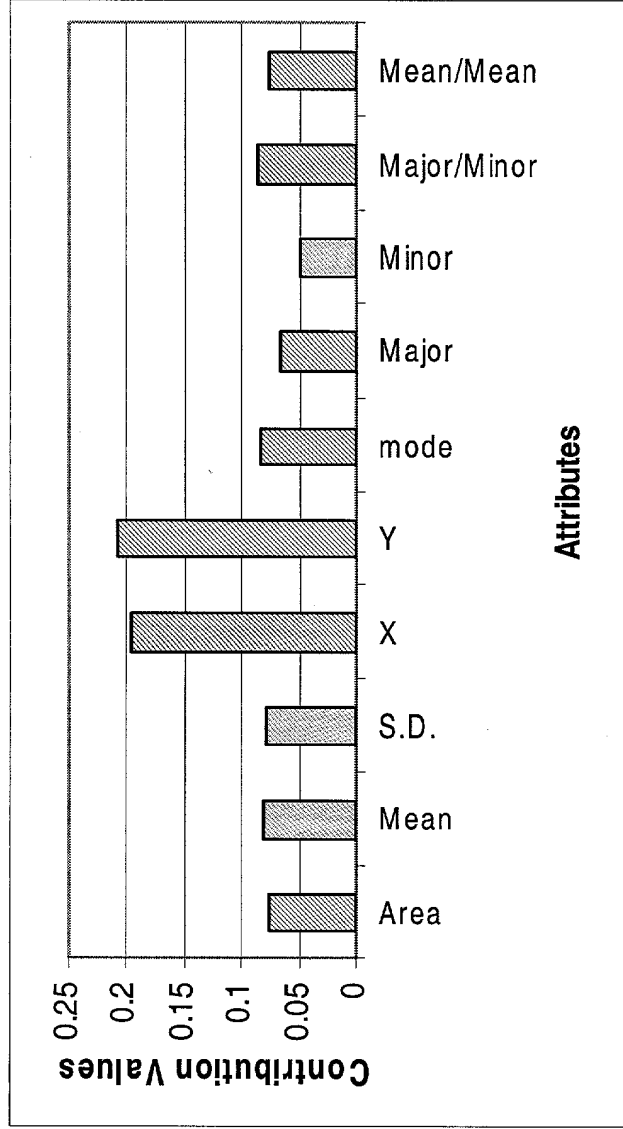
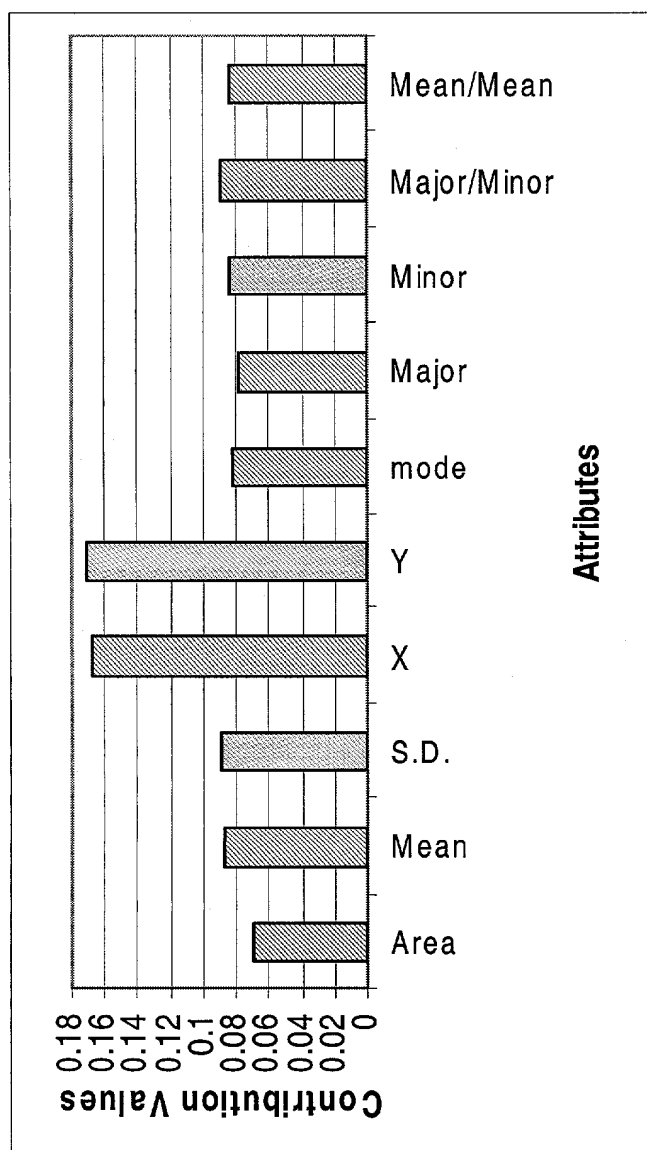


FIGURE 110



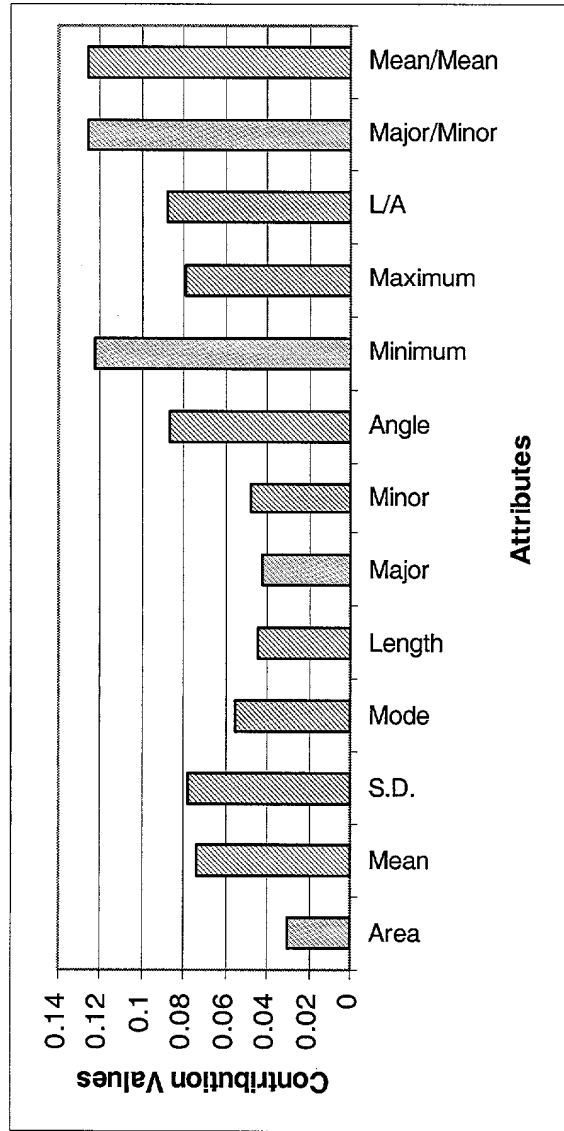


FIGURE 112

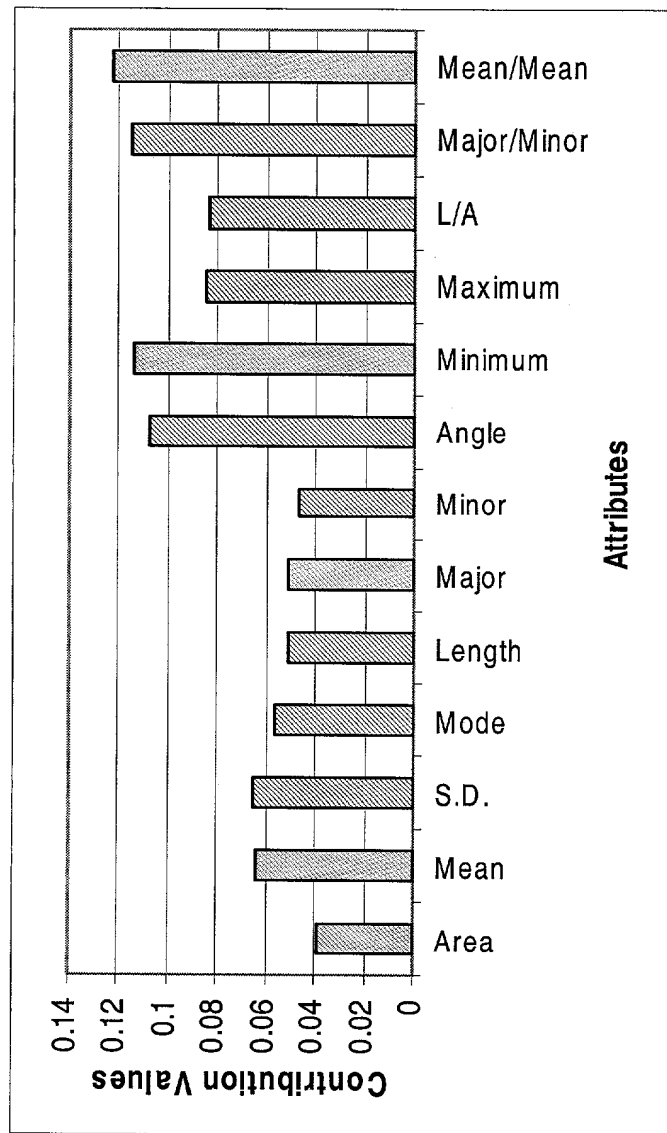


FIGURE 113

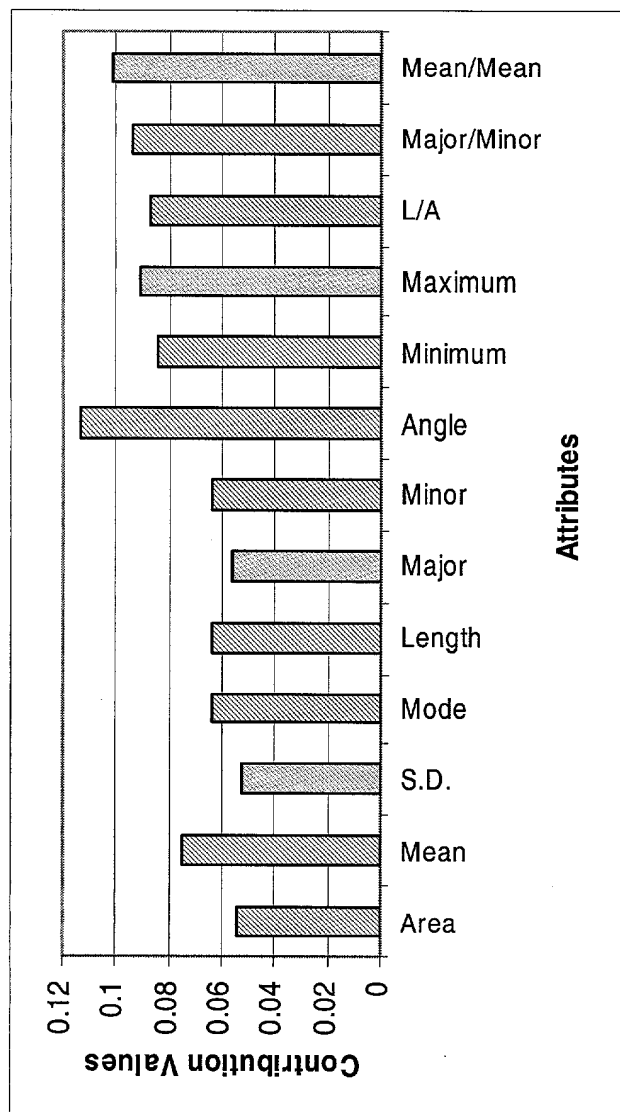


FIGURE 114

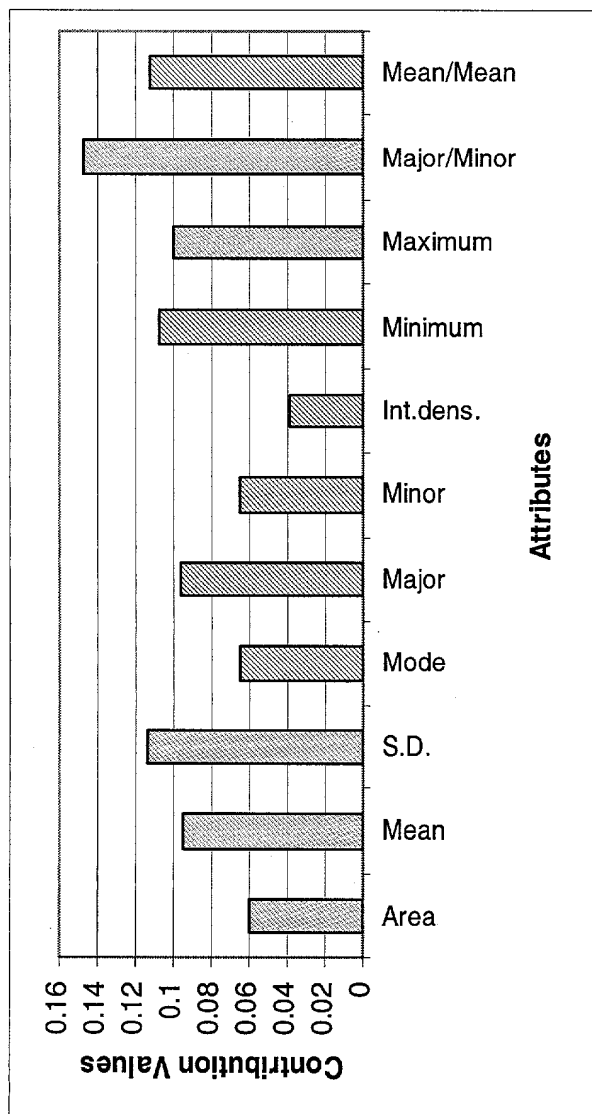


FIGURE 115

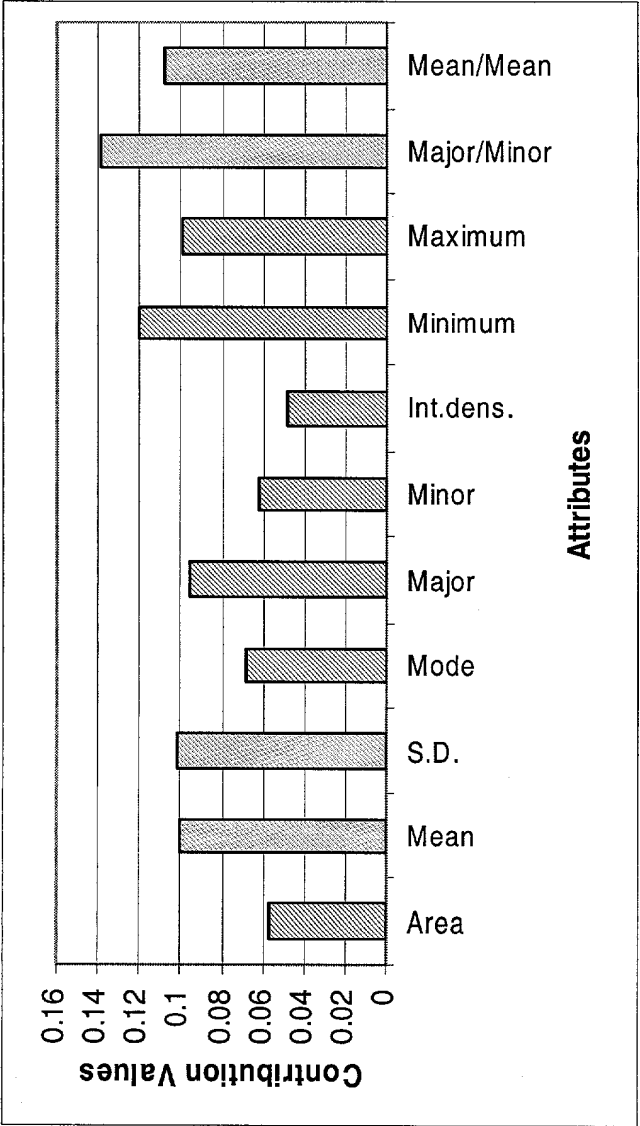


FIGURE 116

Source: *Journal of the American Statistical Association*, 1995, Vol. 90, No. 431, pp. 1311-1320.

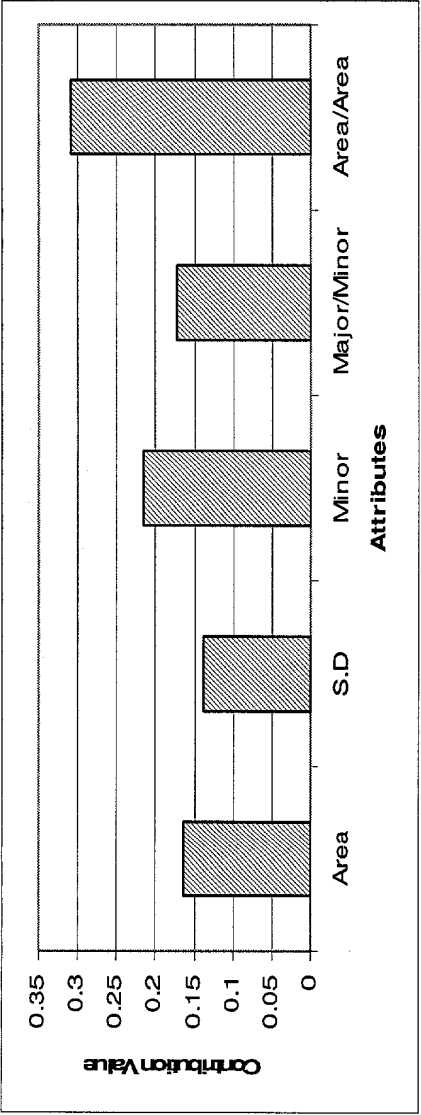


FIGURE 118

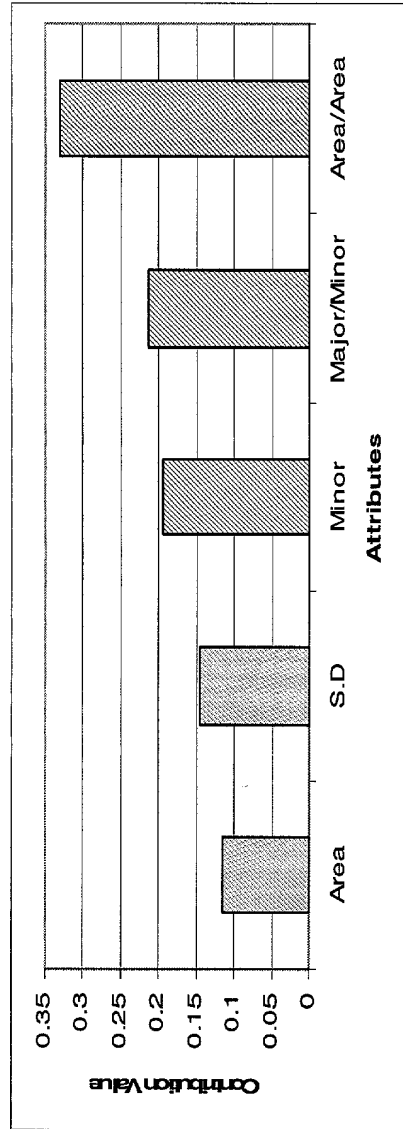


FIGURE 119

Attributes	Contribution Value
Area	0.12
S.D.	0.08
Minor	0.20
Major/Minor	0.15
Area/Area	0.32

FIGURE 120